

# Gene Brain Systems.nimh

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Access to database of BAC-Cre driver lines

Instructions  
are provided  
as a PDF

Information for BAC-Cre lines for  
selected Brain Systems are  
provided as a PDF

## Database of GENSAT BAC-Cre driver lines

Database of high resolution images of brain sections expressing Cre recombinase.  
Expression patterns may be selected and compared by brain system.

Instructions: PDF file of instructions to use this website

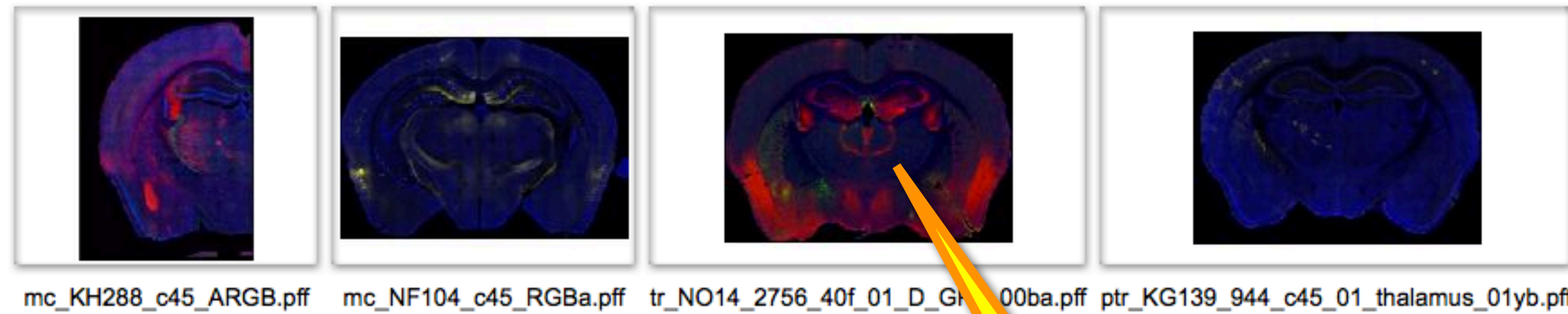
Brain Systems: PDF files of information on brain systems and Cre-driver lines

Search Brain Database: access to Cre-driver line database

Cre lines may also be accessed through GENSAT database: <http://www.gensat.org/cre.jsp>

contact: Chip Gerfen, Laboratory of Systems Neuroscience, NIMH: [gerfenc@mail.nih.gov](mailto:gerfenc@mail.nih.gov)

Link to GENSAT DATABASE Cre Page



Double click on  
thumbnail anywhere in  
the website to view at  
higher magnification

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genebrainsystems.nimh.nih.gov/plevelinput.jsp

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Click: Select All to select all LEVELS

Use KeyWord: to select Cre lines to be listed under: LINES

KeyWord: 00 \*\*\*GENSAT Cre lines\*\*\*

lists all GENSAT Cre driver lines named by: GeneDriver\_specific line (ie: Adora2a\_KG126)

Select Cre driver line(s): default lists all lines or select by keyword or lines with expression in specific brain system

Select the coronal levels to display by checking boxes: default provides 1 level in 5, All Levels option allows selection from all

KEYWORD: 00 \*\*\*GENSAT Cre lines\*\*\*

KEYWORD:

KEYWORD:

LINES

Select All Unselect All

SELECTS all Lines listed for keyword

LEVELS

Select All Unselect All

DESCRIPTION

Place mouse over Level description to change image.

Display Slides

Results display lines in rows

Results display lines in columns

NOTE: clicking on LINE in list directly pulls up all images for that line

Two options for display, Lines listed in rows or Lines listed in columns

After making selections of LINES and LEVELS click on Display Slides

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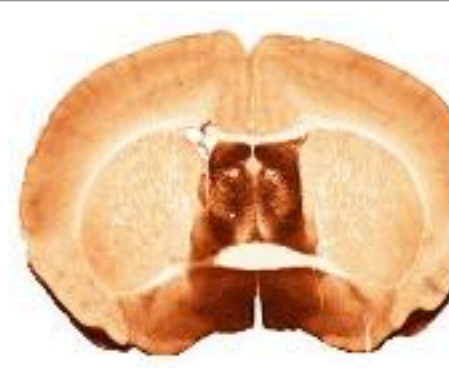











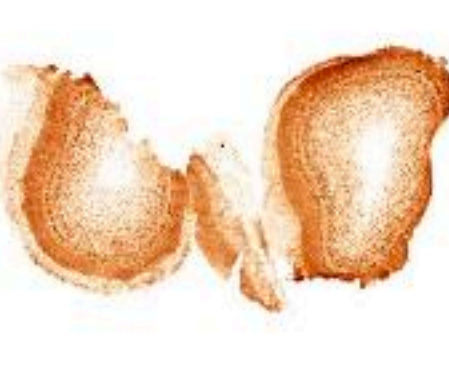

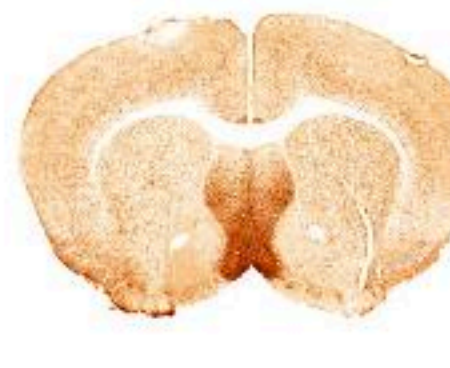







Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

All Ore lines are displayed in rows with images through levels

scroll to left and down to see full matrix of images

Line	c1 - c5	c6 - c10	c11 - c15	c16 - c20	c21 - c25	c26 - c30	c31 - c35	
A2365H16Rik_RA31	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
A8300**Rik_KJ227	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Adora2a_KG126	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Adora2a_KG139	no image available	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	no image available
Amigo1_NP210	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Arpp21_OL90	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Ascl1_ND216	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>

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Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

Keyword: 2 basal ganglia circuits

Keyword:

Keyword:

**LINES** [Select All](#) [Unselect All](#)

<input type="checkbox"/> A8300**Rik_KJ227	cortex layer 5
<input checked="" type="checkbox"/> Adora2a_KG126	indirect striatal pathway
<input type="checkbox"/> Adora2a_KG139	indirect striatal pathway
<input type="checkbox"/> by_Glt25d2_NF107	
<input type="checkbox"/> Dbp_MN120	
<input type="checkbox"/> Dlx5_MO36	GABA interneurons
<input checked="" type="checkbox"/> Drd1a_EY217	direct striatal pathway
<input checked="" type="checkbox"/> Drd1a_EY266	accumbens shell // amygdala i...
<input type="checkbox"/> Drd3_KI196	
<input type="checkbox"/> Drd3_KJ291	accumbens
<input checked="" type="checkbox"/> Drd3_KJ302	accumbens and cortex layer 2/3
<input checked="" type="checkbox"/> Gabrr3_KC112	
<input checked="" type="checkbox"/> Gng7_KH71	direct and indirect striatal p...
<input type="checkbox"/> Gpr26_KO250	cortex layer 5 and thalamus
<input type="checkbox"/> Gpr26_KO273	cortex layer 4
<input checked="" type="checkbox"/> Grp_KH288	frontal cortical areas
<input type="checkbox"/> Grp_KH288i	

[Select All](#) [Unselect All](#)

**LEVELS** [All Levels](#)

<input type="checkbox"/> c5	c05 olfactory bulb
<input type="checkbox"/> c10	c10 frontal cortex
<input type="checkbox"/> c15	c15 frontal cortex
<input checked="" type="checkbox"/> c20	c20 accumbens
<input checked="" type="checkbox"/> c25	c25 striatum
<input type="checkbox"/> c30	c30 septal area
<input checked="" type="checkbox"/> c35	c35 globus pallidus
<input checked="" type="checkbox"/> c40	c40 hypothalamus
<input checked="" type="checkbox"/> c45	c45 thalamus
<input type="checkbox"/> c50	c50 hippocampus
<input checked="" type="checkbox"/> c55	c55 midbrain
<input checked="" type="checkbox"/> c60	c60 substantia nigra
<input type="checkbox"/> c65	c65 colliculus
<input type="checkbox"/> c70	c70 dorsal raphe
<input type="checkbox"/> c75	c75 PPN
<input type="checkbox"/> c80	c80 brainstem
<input type="checkbox"/> c85	locus coeruleus
<input type="checkbox"/> c90	c90 cerebellum
<input type="checkbox"/> c95	c95 cerebellum
<input type="checkbox"/> c100	

Place mouse over Level description to change image.

p75

c80 brainstem

p85

locus coeruleus

p85

c90 cerebellum

Display Slides

☒ Results display lines in rows

☐ Results display lines in columns

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Example of searching by brain system.

In this case Cre drivers with expression in basal ganglia circuits are listed

Specific lines selected by checking boxes next to LINES with expression in areas of interest

Specific LEVELS are selected by checking boxes at levels in areas of interest



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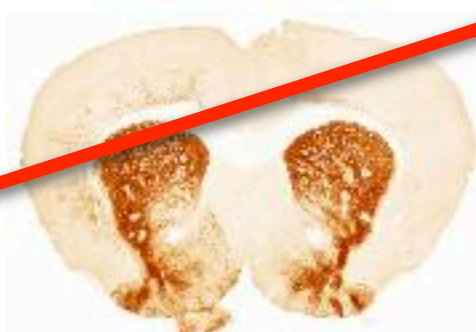
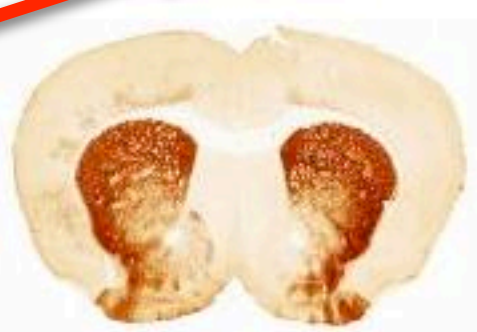
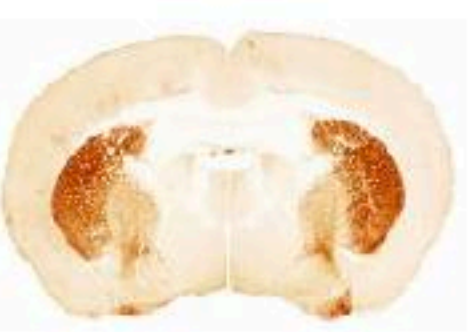

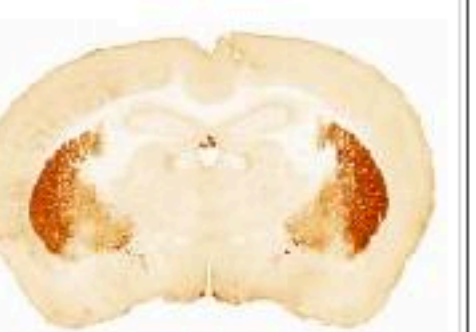


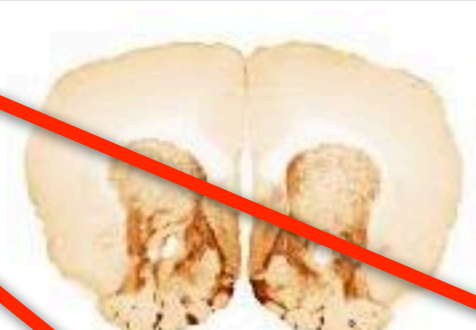








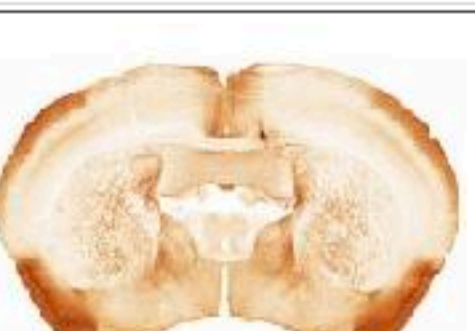
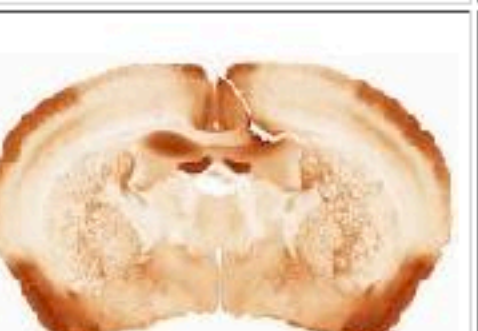
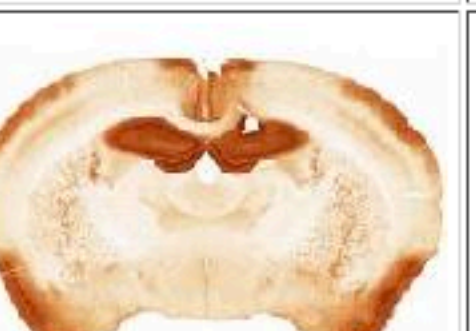
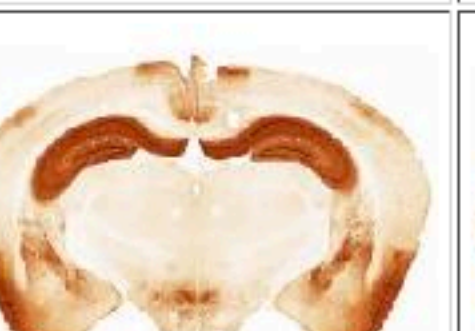

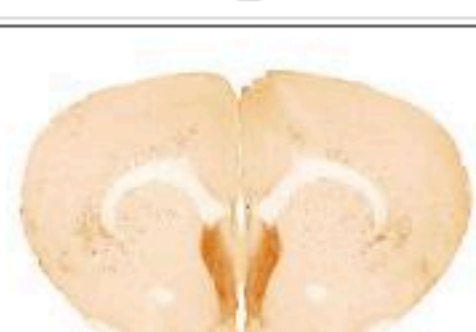
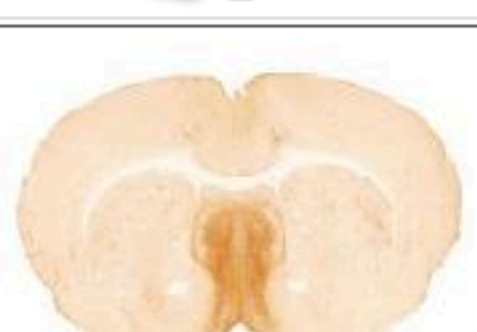
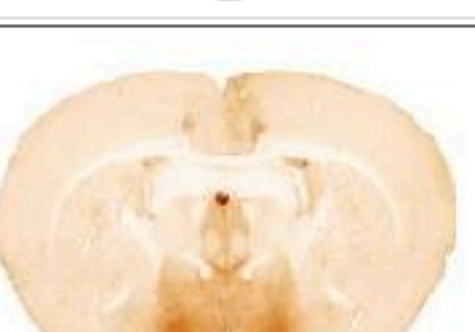
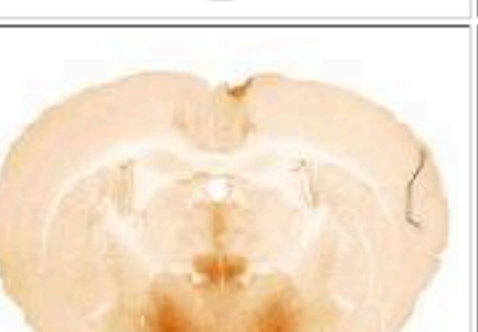
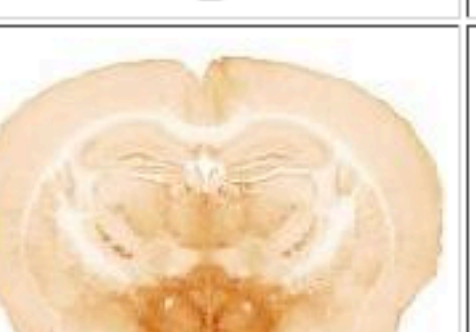


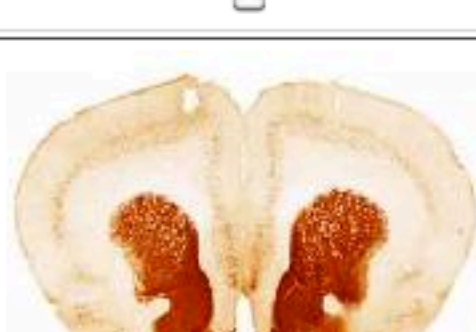
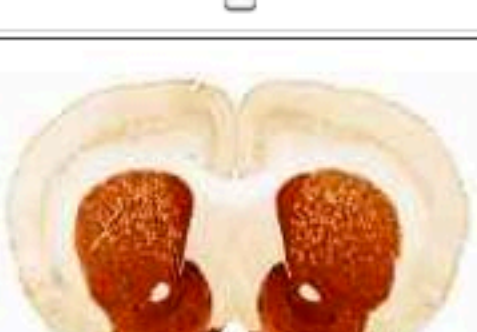
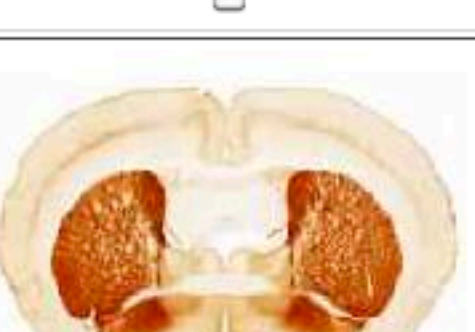
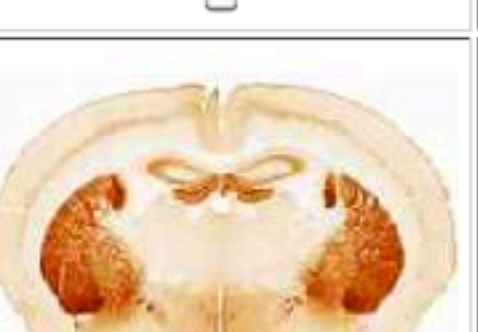

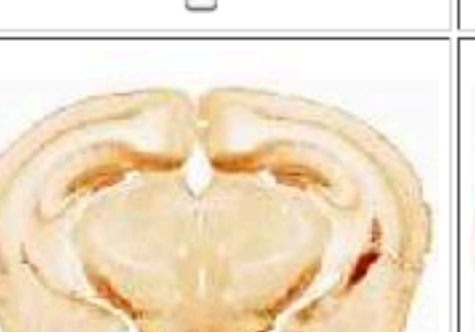
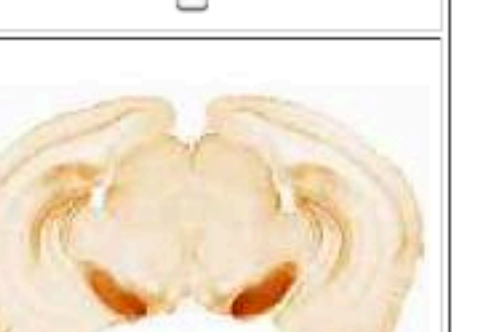


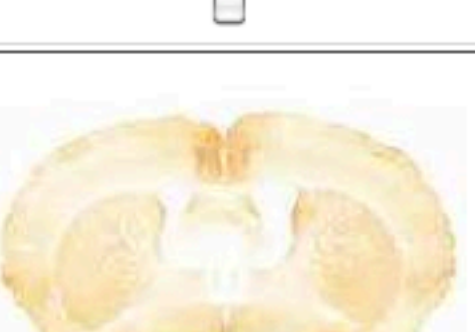




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Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

Check up to 4 thumbnails and then click : Compare Selected Slides

Line	c16 - c20	c21 - c25	c31 - c35	c36 - c40	c41 - c45	c51 - c55	c56 - c60
Adora2a_KG126	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Drd1a_EY217	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Drd1a_EY266	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Drd3_KJ302	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Gabbr3_KC112	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Gng7_KH71	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Grp_KH288	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>



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Use the group slide button to link the slides.

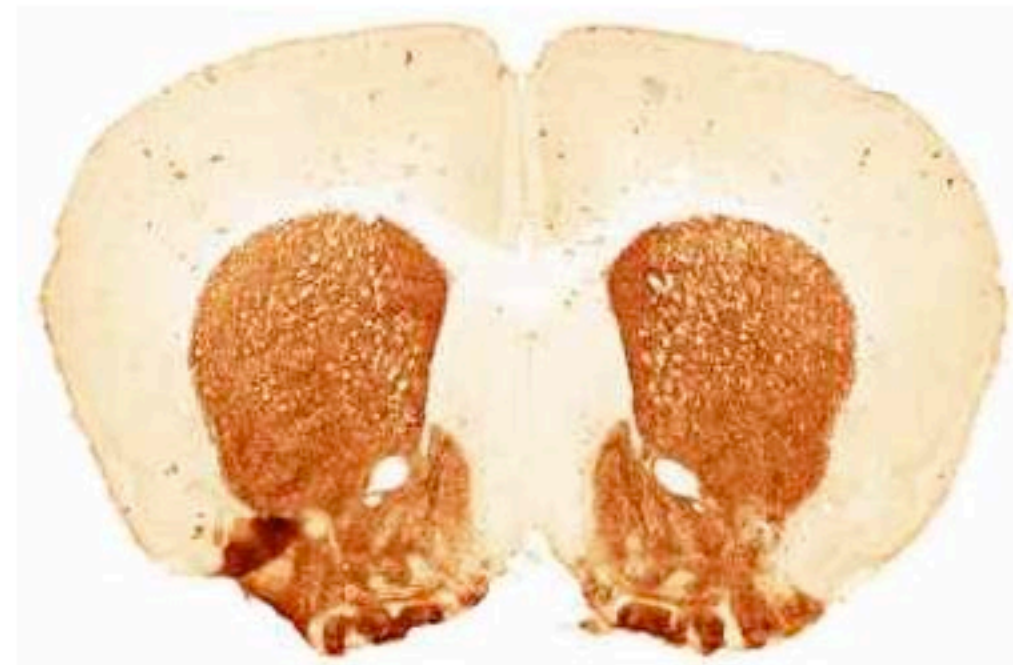
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Group Slides

Thumbnails selected in previous page are displayed

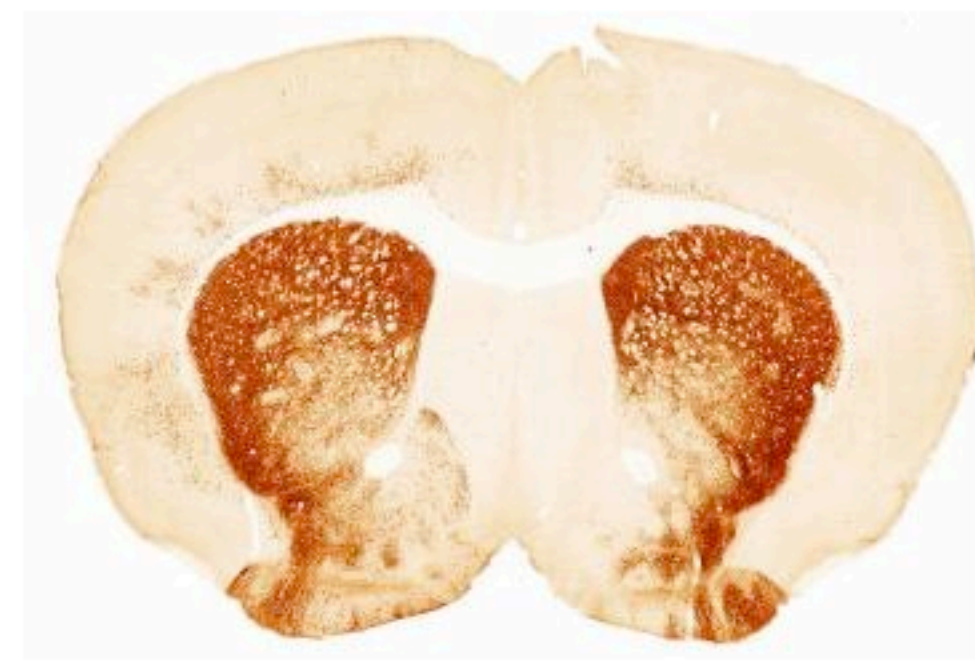
Click : Group Slides

this allows images to be magnified and moved together



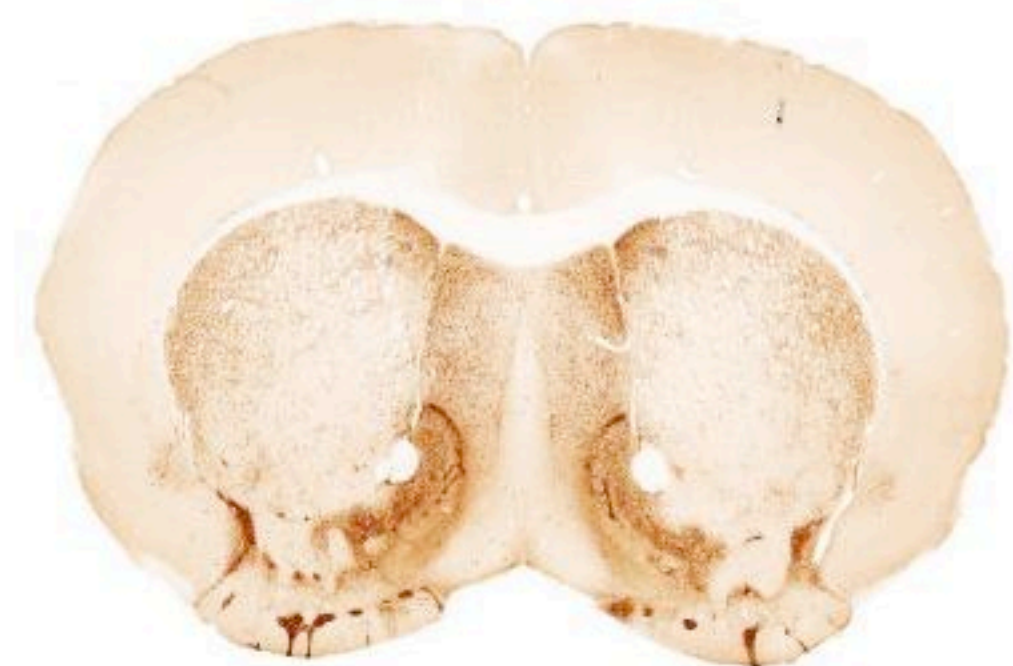
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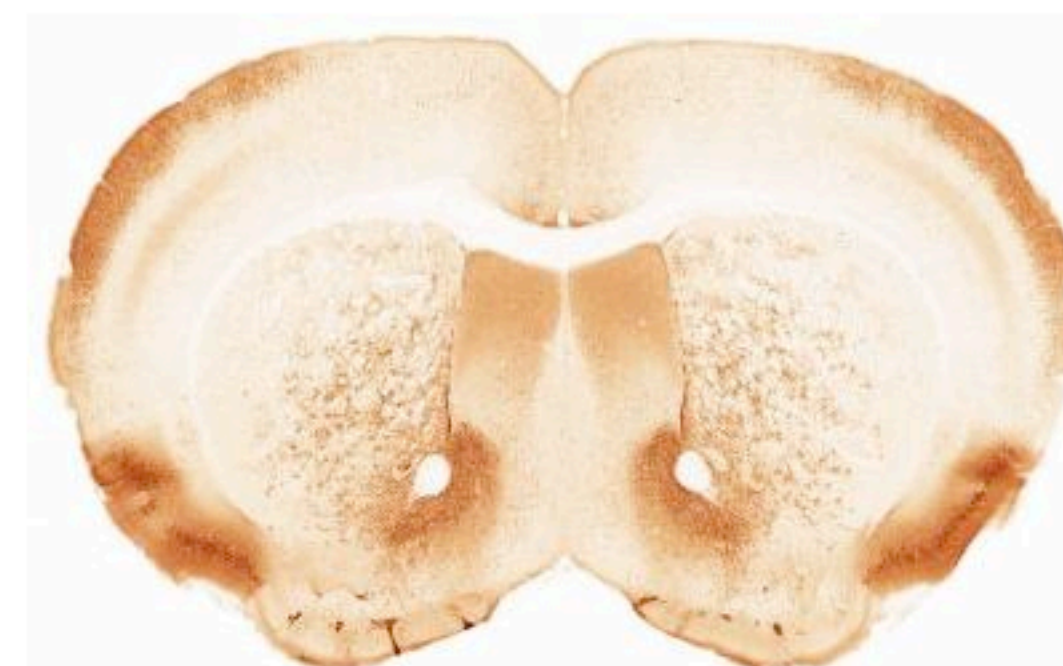
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a\_Drd3\_KJ302\_1860\_p25.pff

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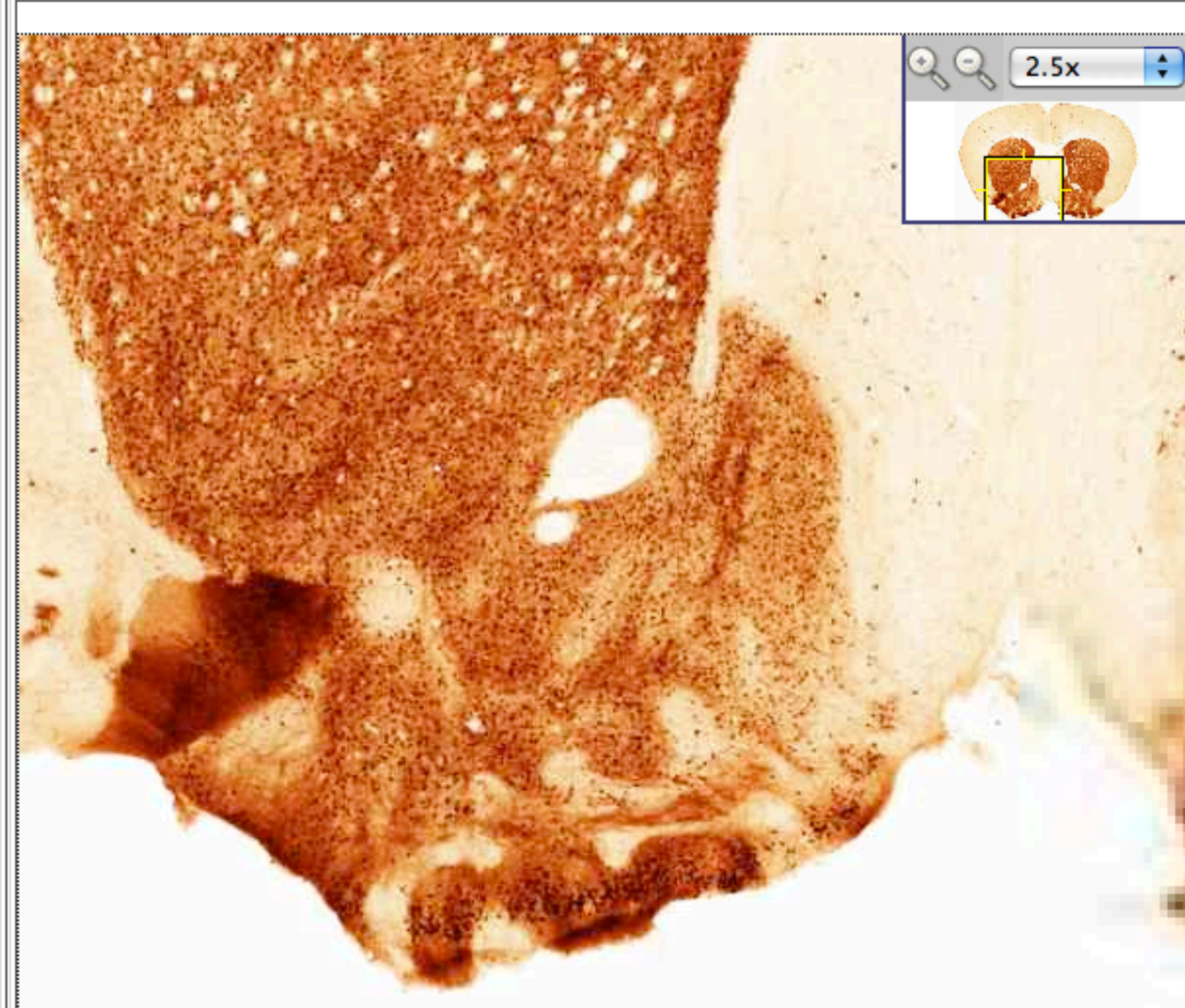


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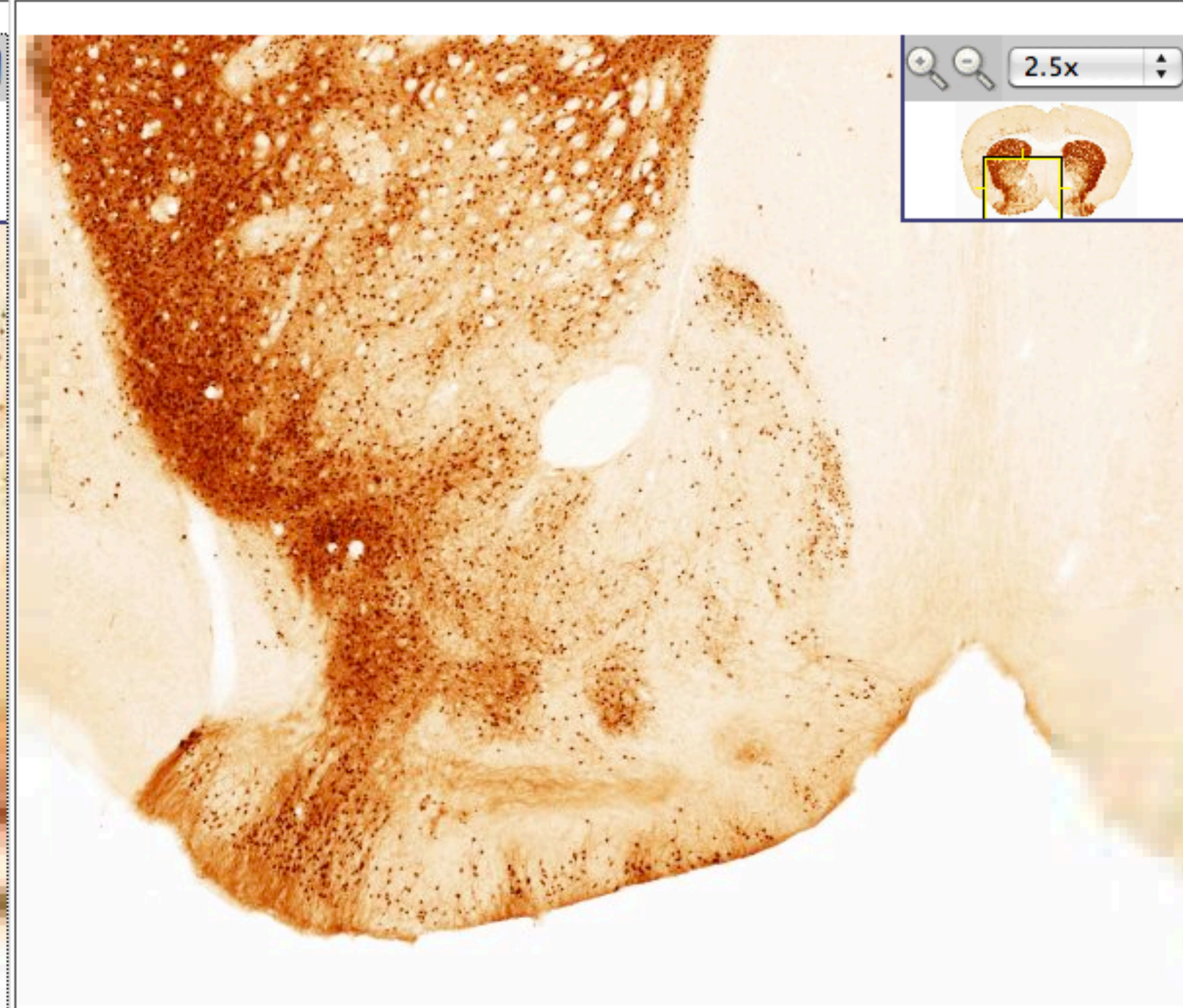
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Ungroup Slides



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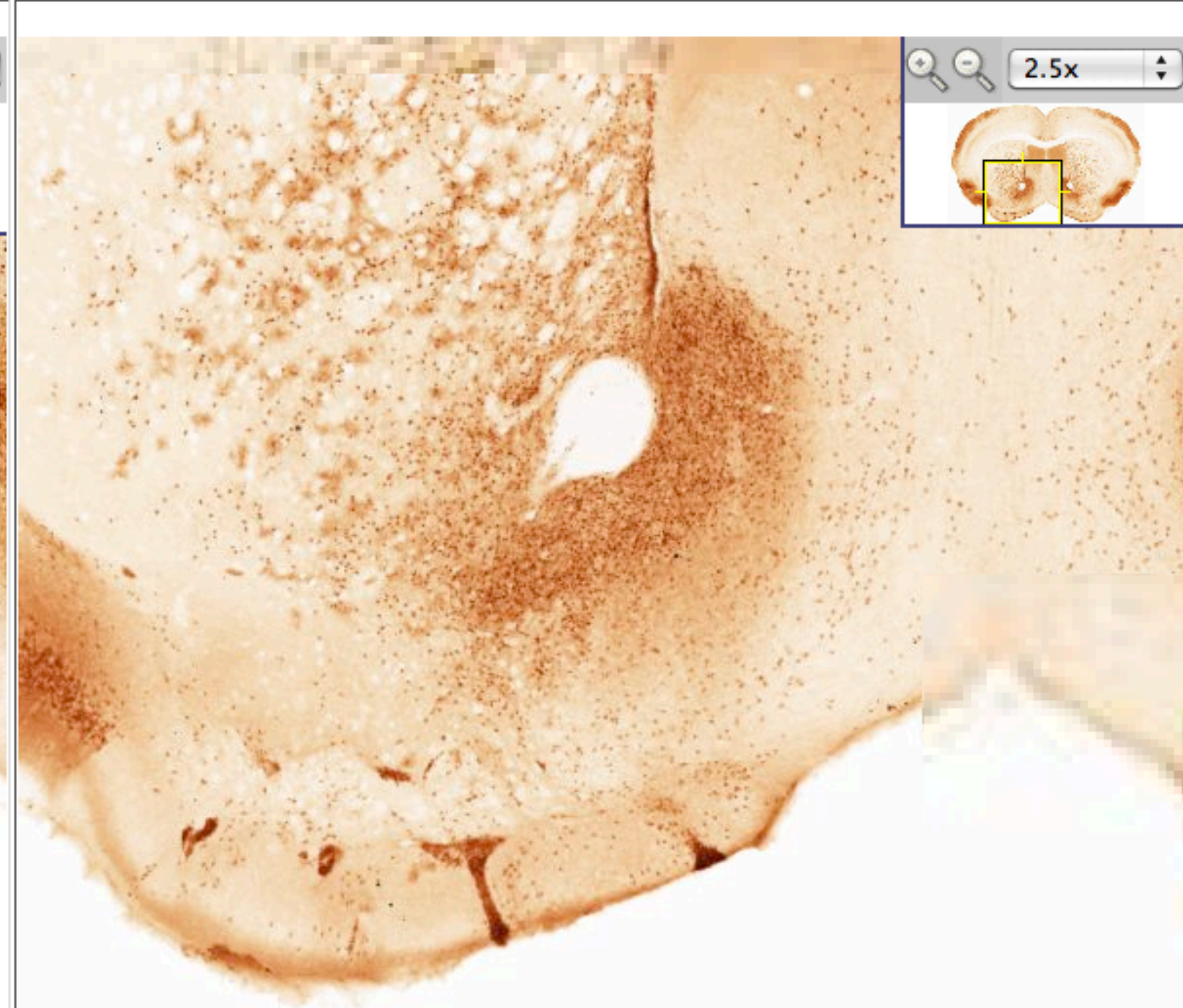
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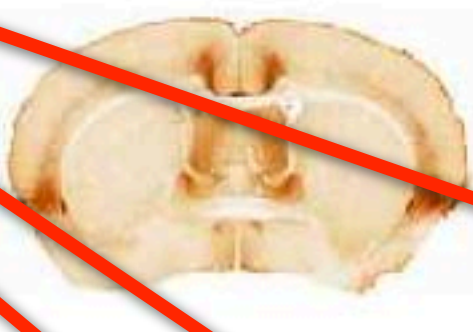







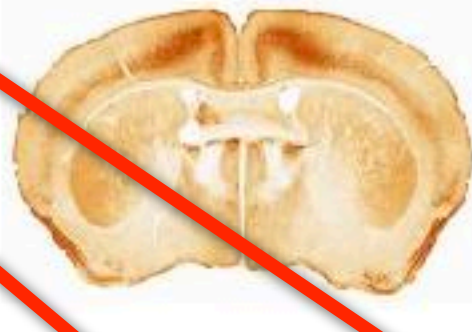
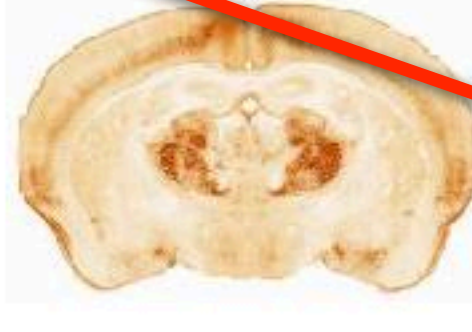
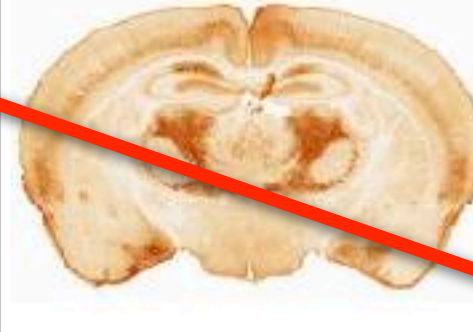


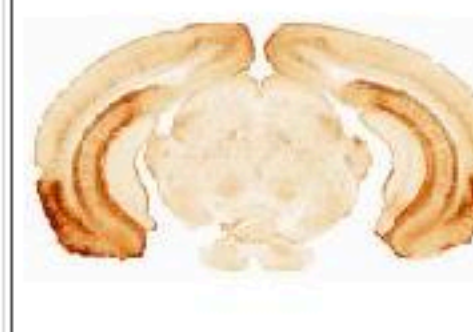

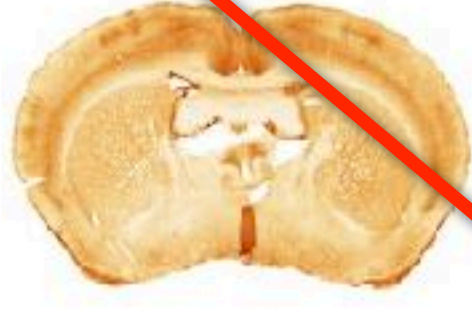
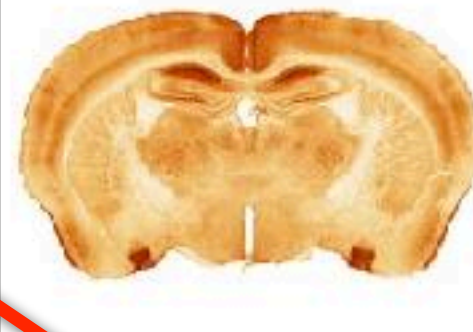









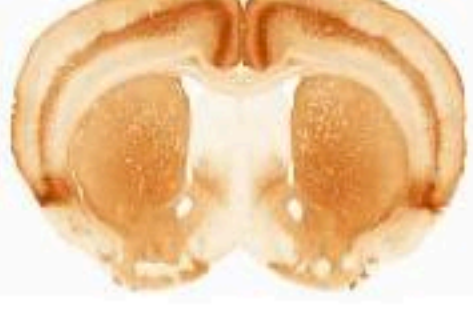
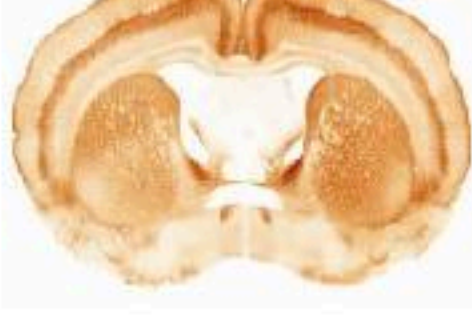




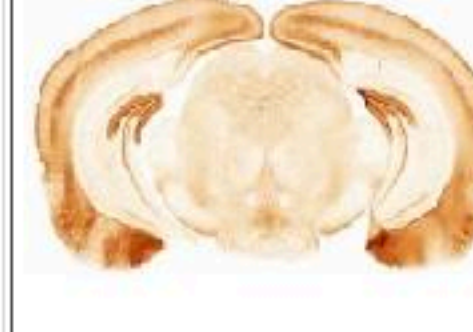







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Compare Selected Slides

Clear Selections

After using Keyword: hippocampus and selecting all lines

Select thumbnails to compare hippocampal Cre expression in these 4 lines

Line	c26 - c30	c31 - c35	c36 - c40	c41 - c45	c46 - c50	c51 - c55	c56 - c60
Drd3_KI198	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Drd3_KJ302	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Epyc_KR363	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Gpr26_KO250	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Klk8_NP157	 <input type="checkbox"/>	 <input type="checkbox"/>	no image available	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Mpp3_KG118	 <input type="checkbox"/>	 <input type="checkbox"/>	no image available	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
Rbp4_KL100	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
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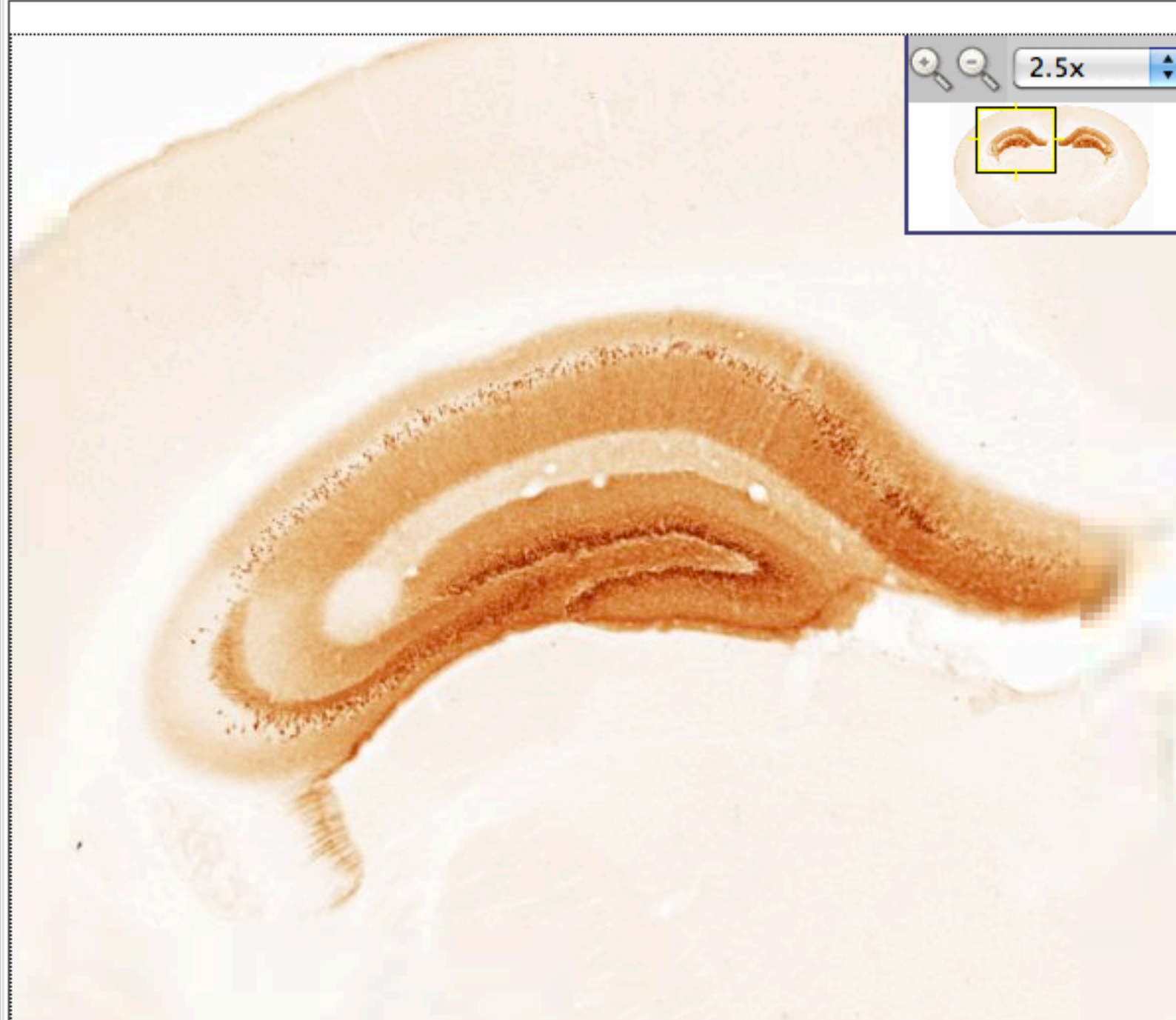


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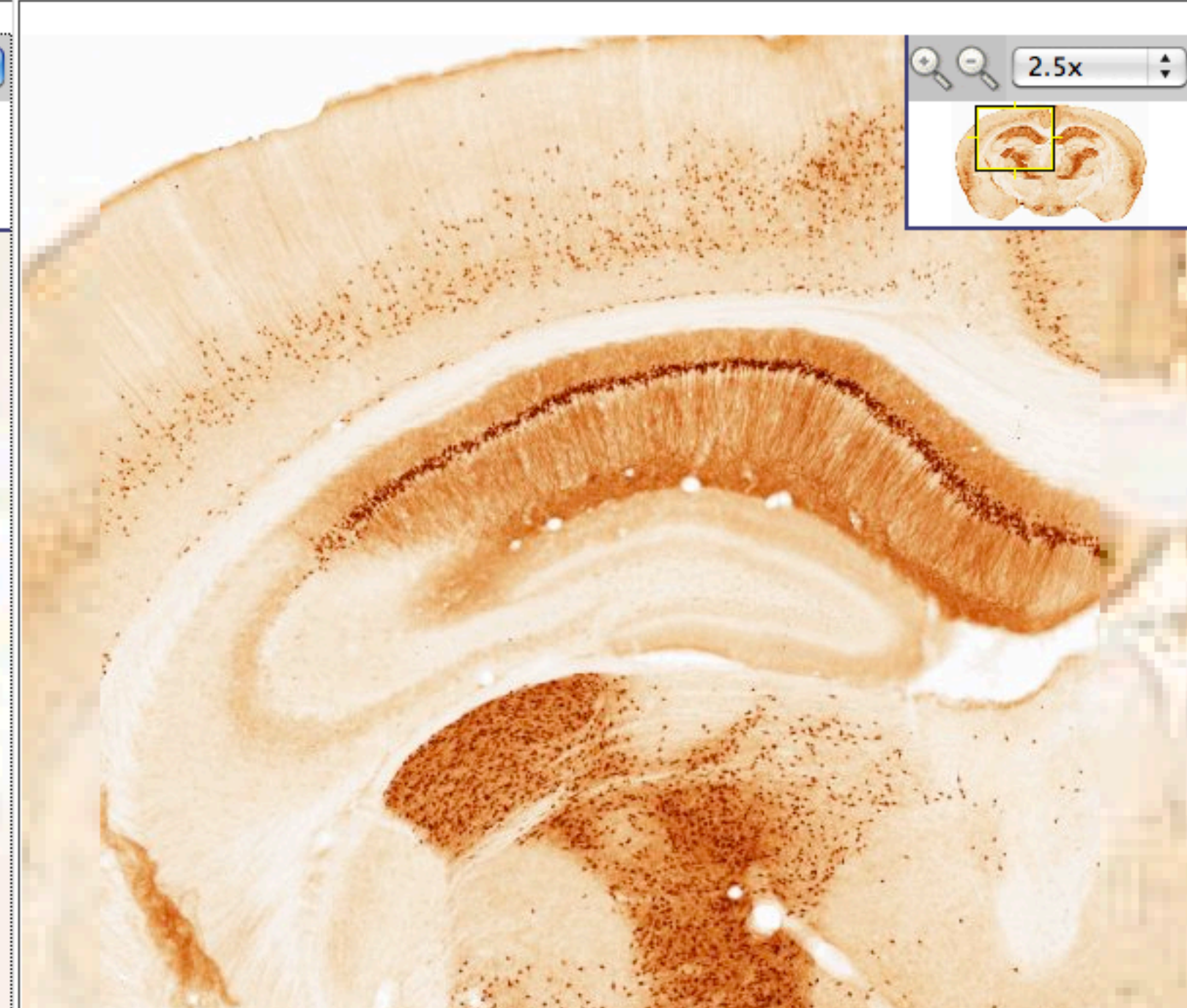
Make sure that all linked slides have the same magnification.

Ungroup Slides



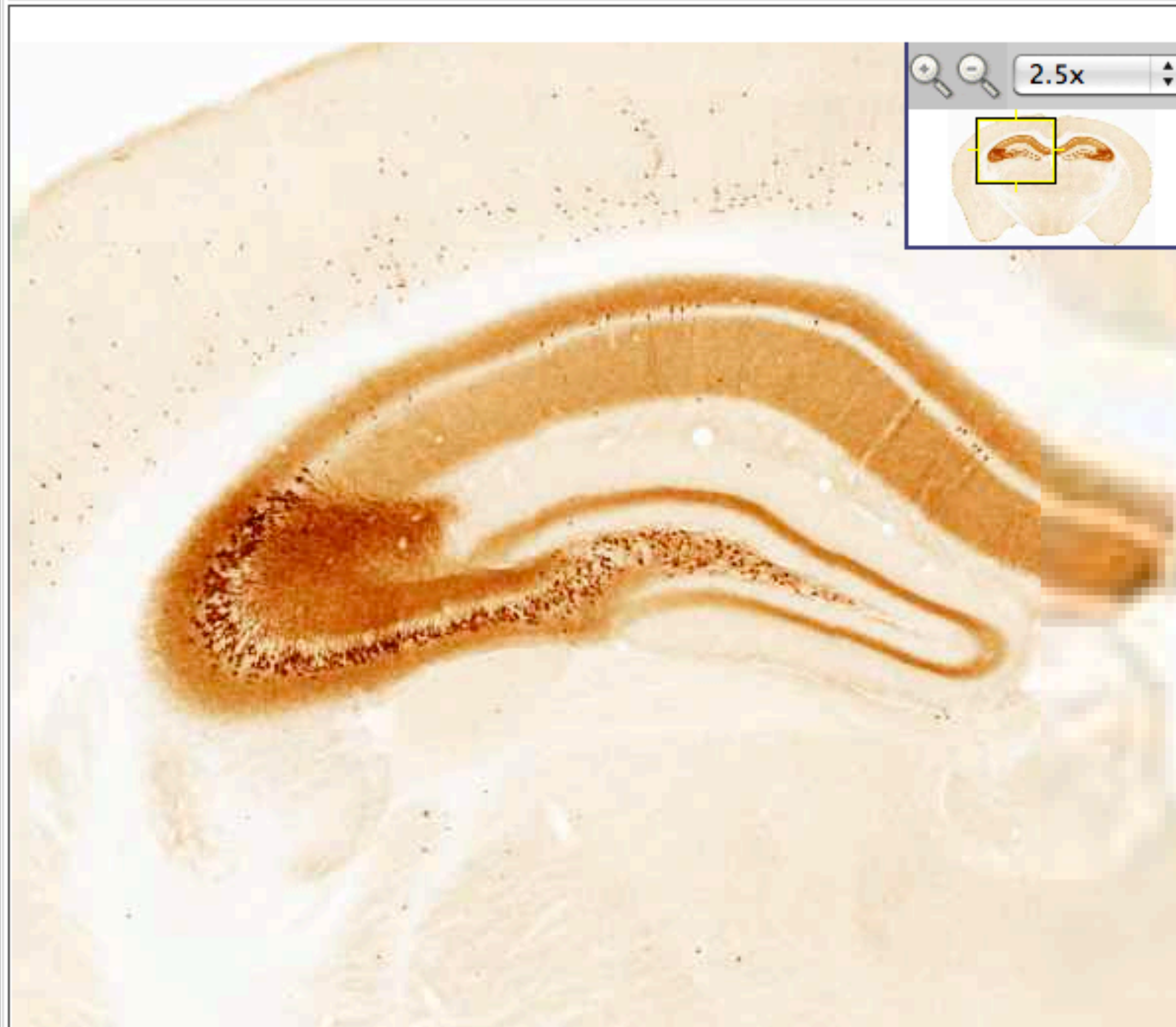
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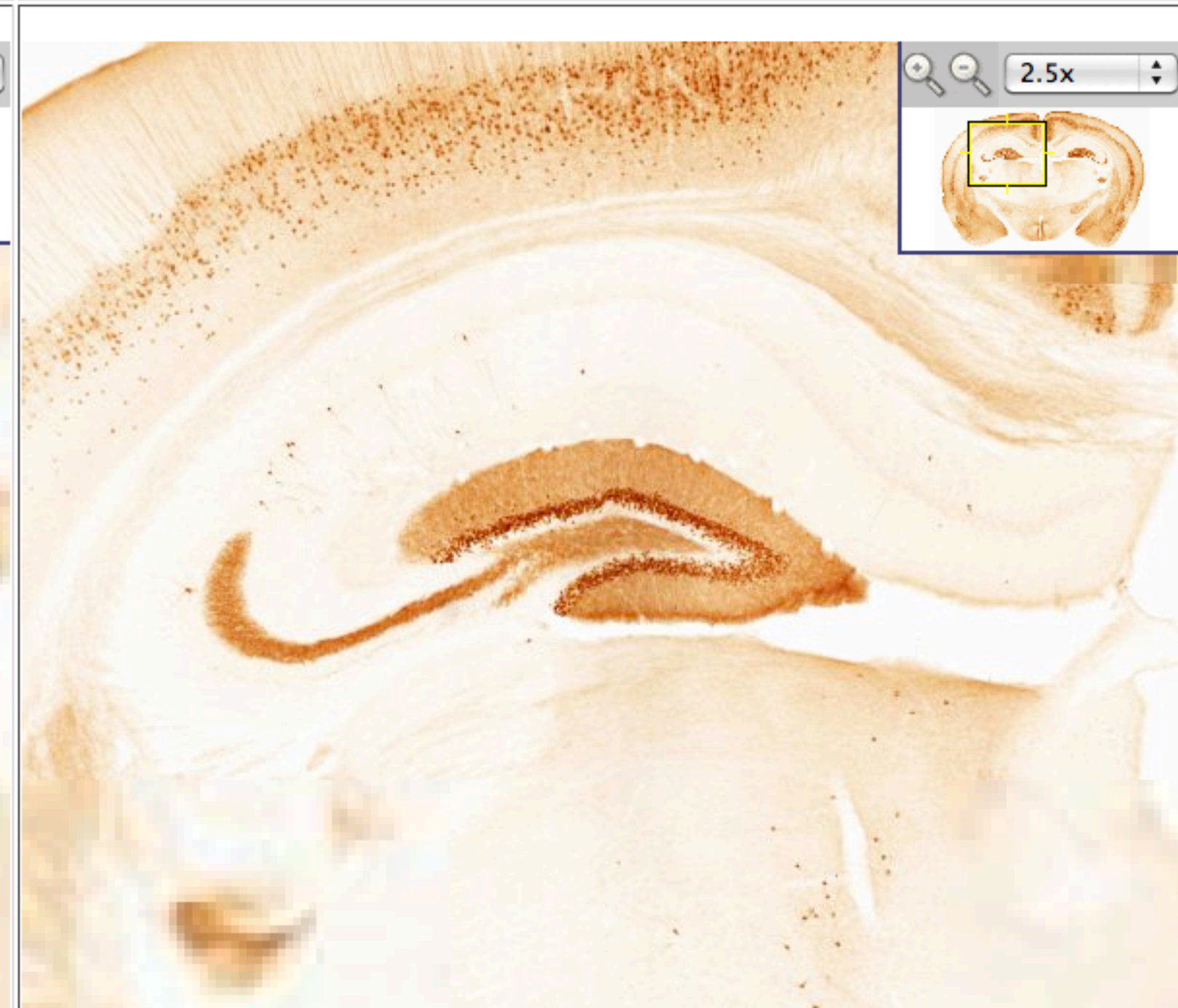
a\_Gpr26\_KO250\_3880\_p49.pff

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a\_Mpp3\_KG118\_99\_p48.pff

[Take a snapshot](#)



a\_Rbp4\_KL100\_4050\_p48.pff

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Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

Keyword: 00a Cre with nissl

Keyword:

Keyword:

LINES

☒ by\_Efr3a\_NO108

☒ by\_Glt25d2\_NF107

☒ by\_Sim1\_KJ18

☒ by\_Tlx3\_PL56

☒ zKH288\_Ycre/Bnissl

☒ zNO14\_Ycre/Bnissl

Select All Unselect All

Select All Unselect All

All Levels

LEVELS

☒ c5

☒ c10

☒ c15

☒ c20

☒ c25

☒ c30

☒ c35

☒ c40

☒ c45

☒ c50

☒ c55

☒ c60

☒ c65

☒ c70

☒ c75

☒ c80

☒ c85

☒ c90

☒ c95

☒ c100

DESCRIPTION

c05 olfactory bulb

c10 frontal cortex

c15 frontal cortex

c20 accumbens

c25 striatum

c30 septal area

c35 globus pallidus

c40 hypothalamus

c45 thalamus

c50 hippocampus

c55 midbrain

c60 substantia nigra

c65 colliculus

c70 dorsal raphe

c75 PPN

c80 brainstem

locus coeruleus

c90 cerebellum

c95 cerebellum

Place mouse over Level description to change image.

p75

c80 brainstem

p85

locus coeruleus

p89

c90 cerebellum

Display Slides

Results display lines in rows

Results display lines in columns

Some Cre lines are imaged with Nissl

Cre expression is pseudocolored in yellow

Nissl is displayed in Blue

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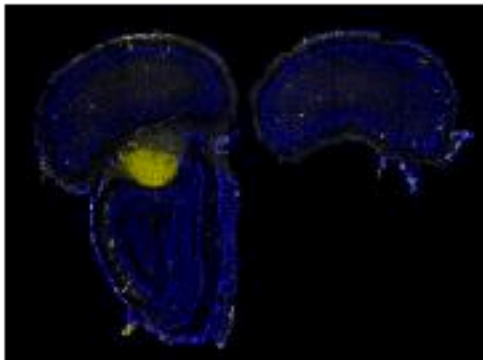
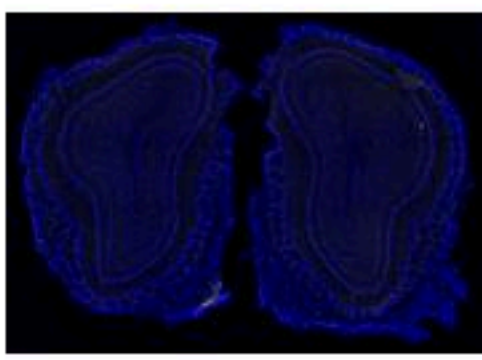
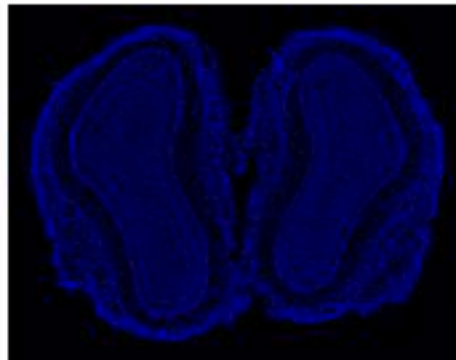
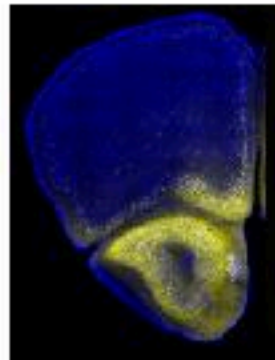
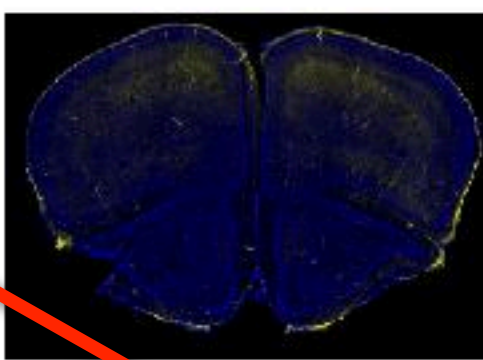
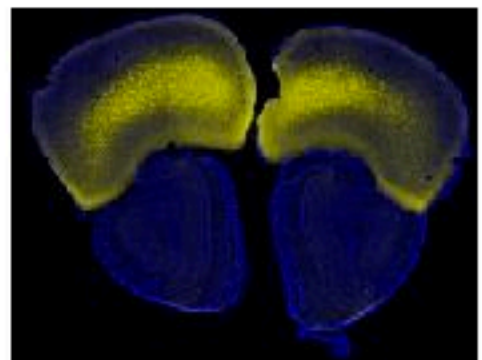
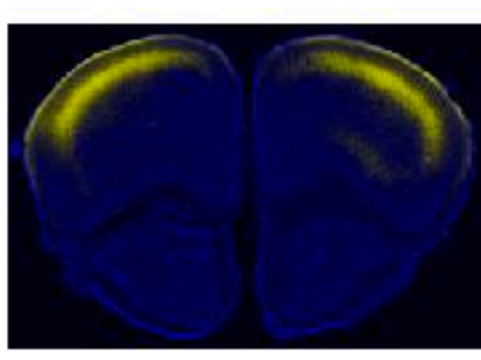
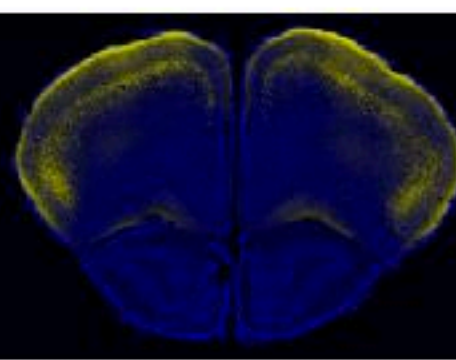
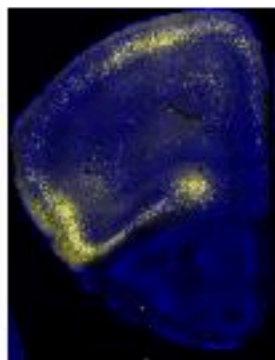
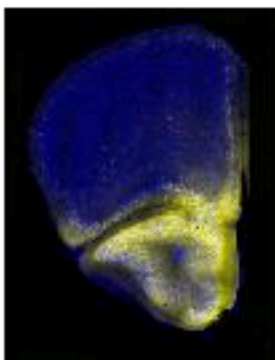
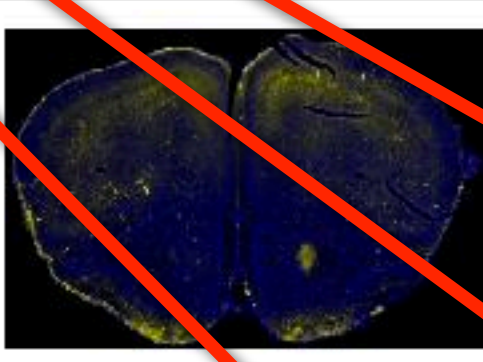
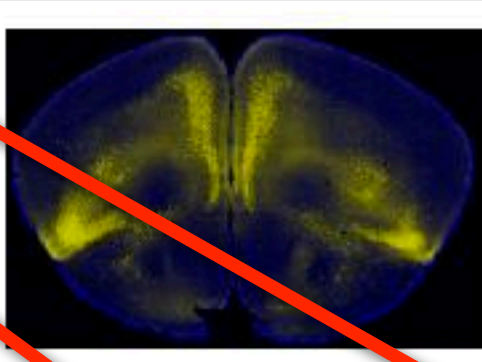
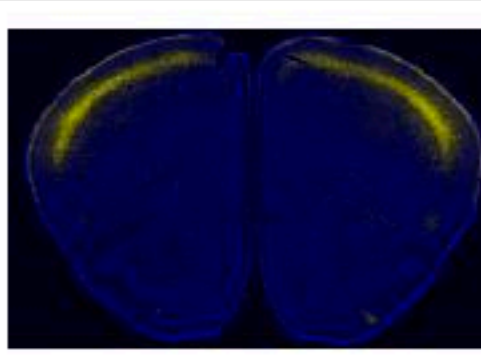
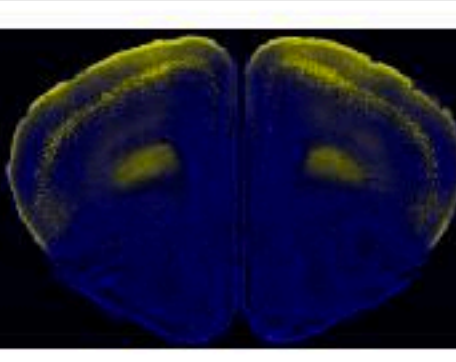
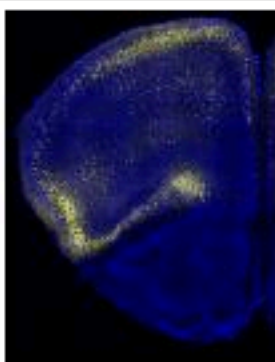
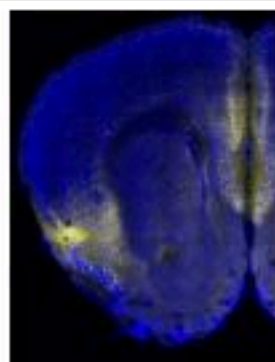
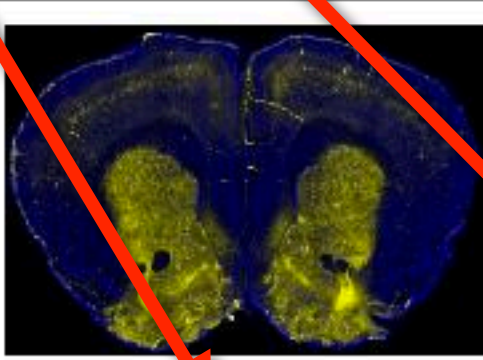
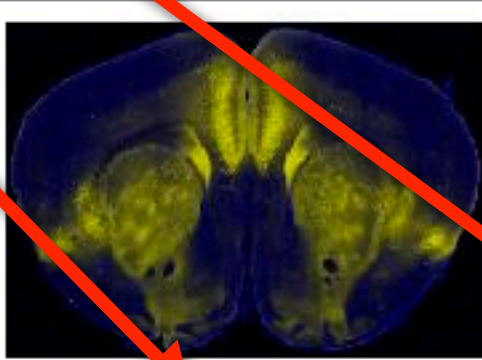
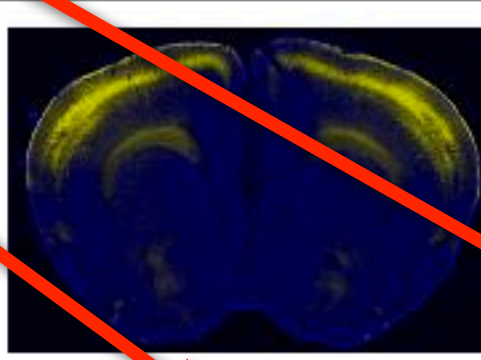
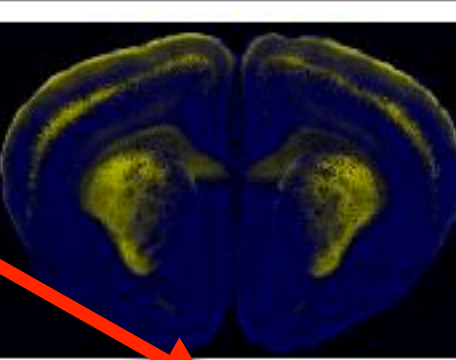
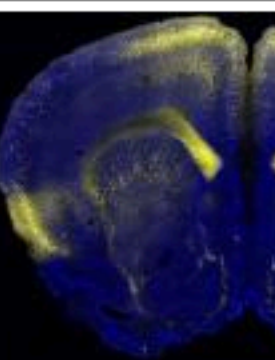
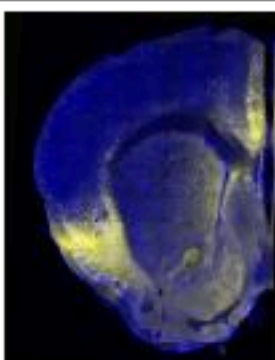
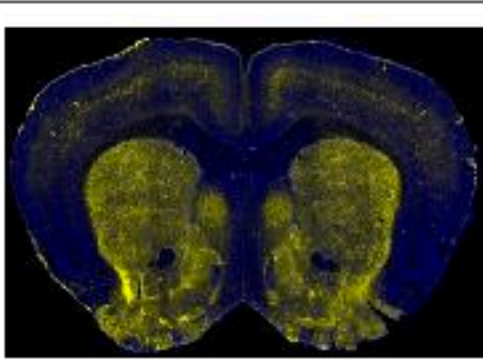
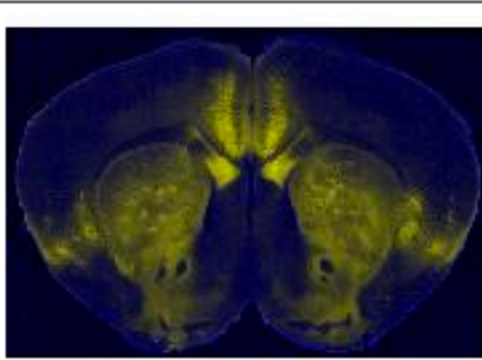
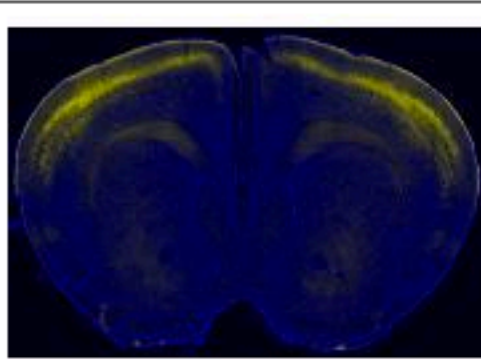
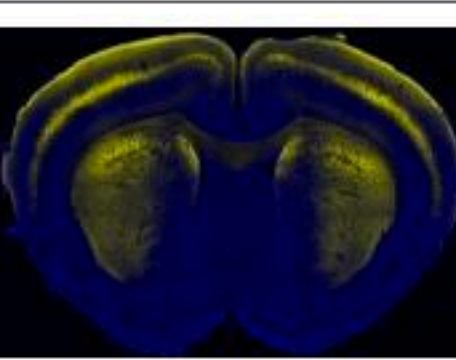
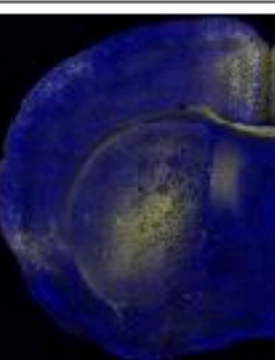
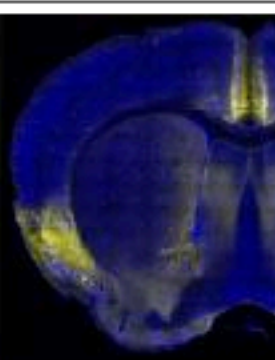
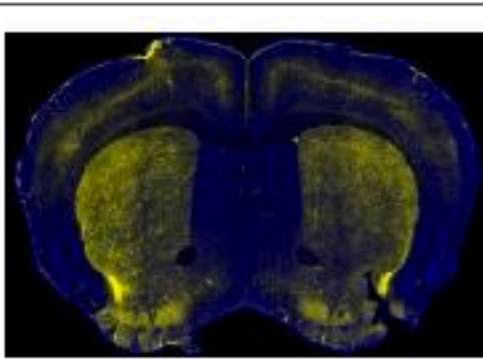
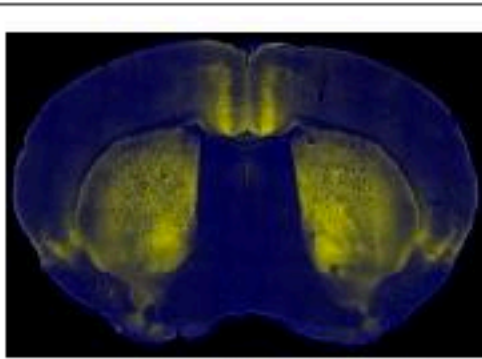
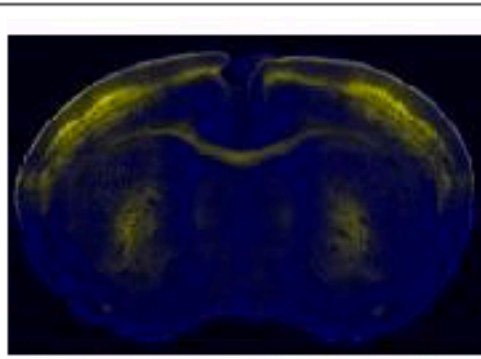
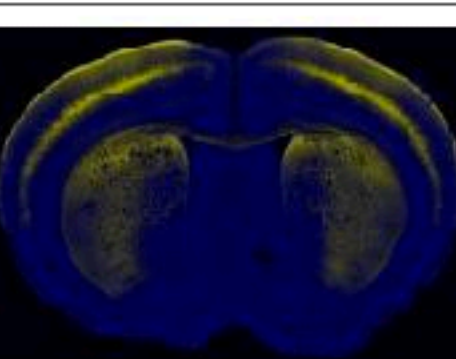
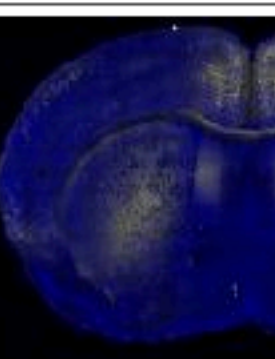
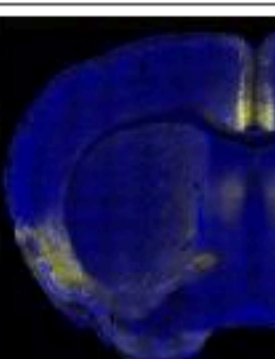
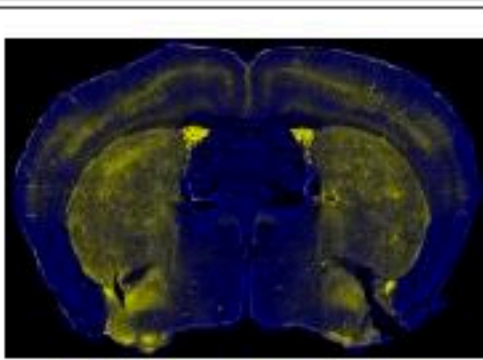
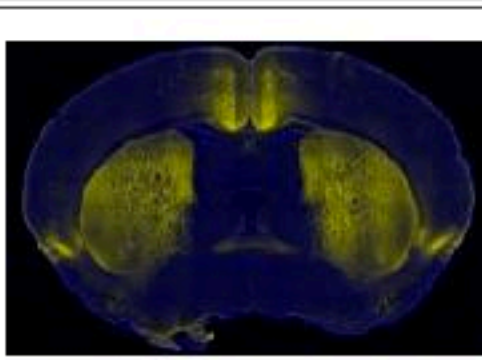
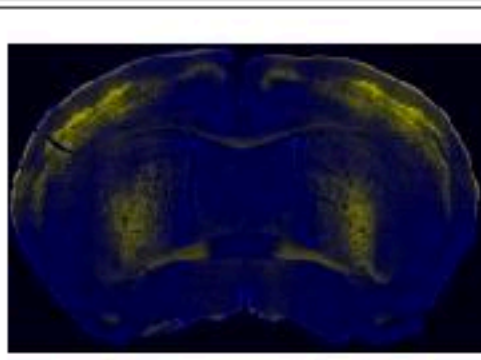
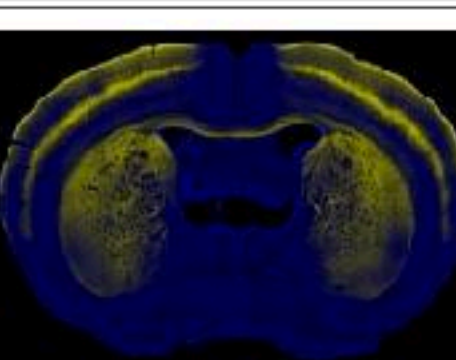
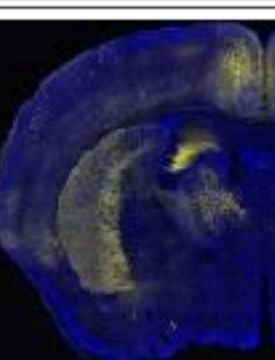
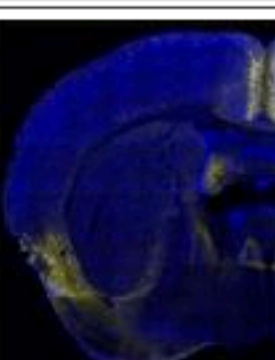
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Only two or four slides are allowed to be compared at any given time.

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Level	by_Efr3a_NO108	by_Glt25d2_NF107	by_Sim1_KJ18	by_Tlx3_PL56	zKH288_Ycre/Brissl	zNO14_Ycre/Brissl
c1 - c5	 <input type="checkbox"/>	 <input type="checkbox"/>	no image available	 <input type="checkbox"/>	no image available	 <input type="checkbox"/>
c6 - c10	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
c11 - c15	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
c16 - c20	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input checked="" type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
c21 - c25	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
c26 - c30	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>
c31 - c35	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>



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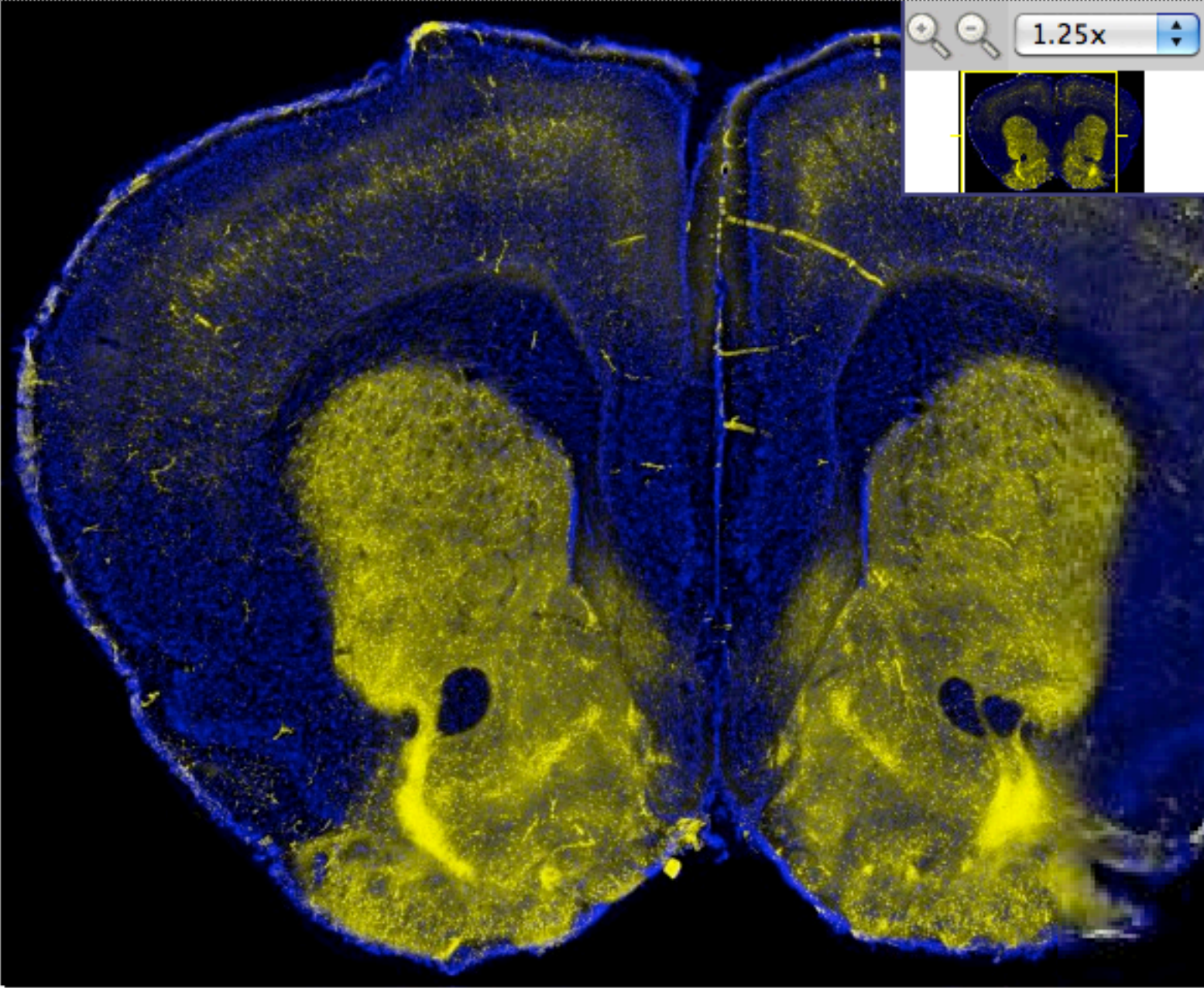
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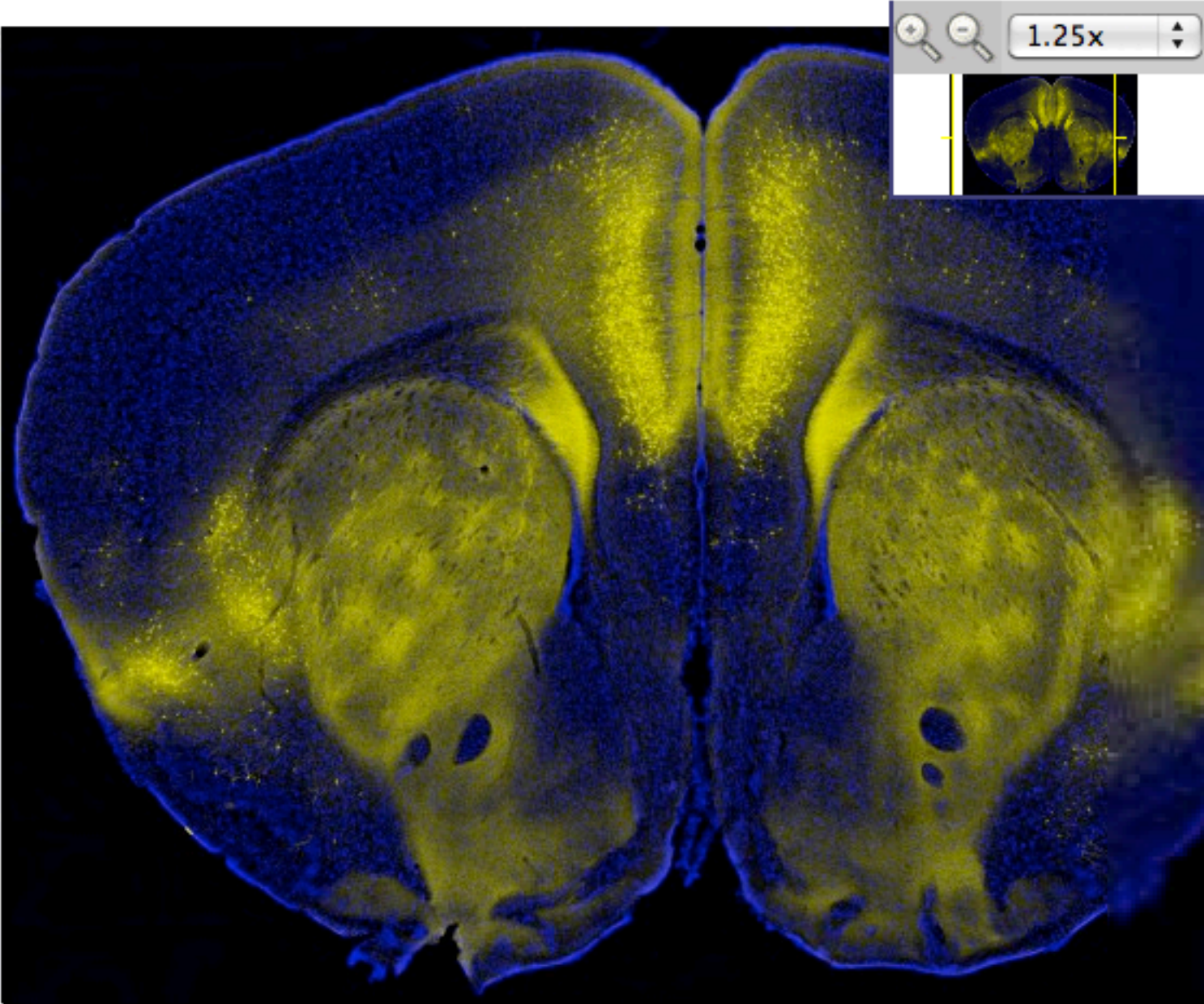
Ungroup Slides



1.25x

mc\_Efr3a\_NO108\_4716\_c20a\_01by.pff

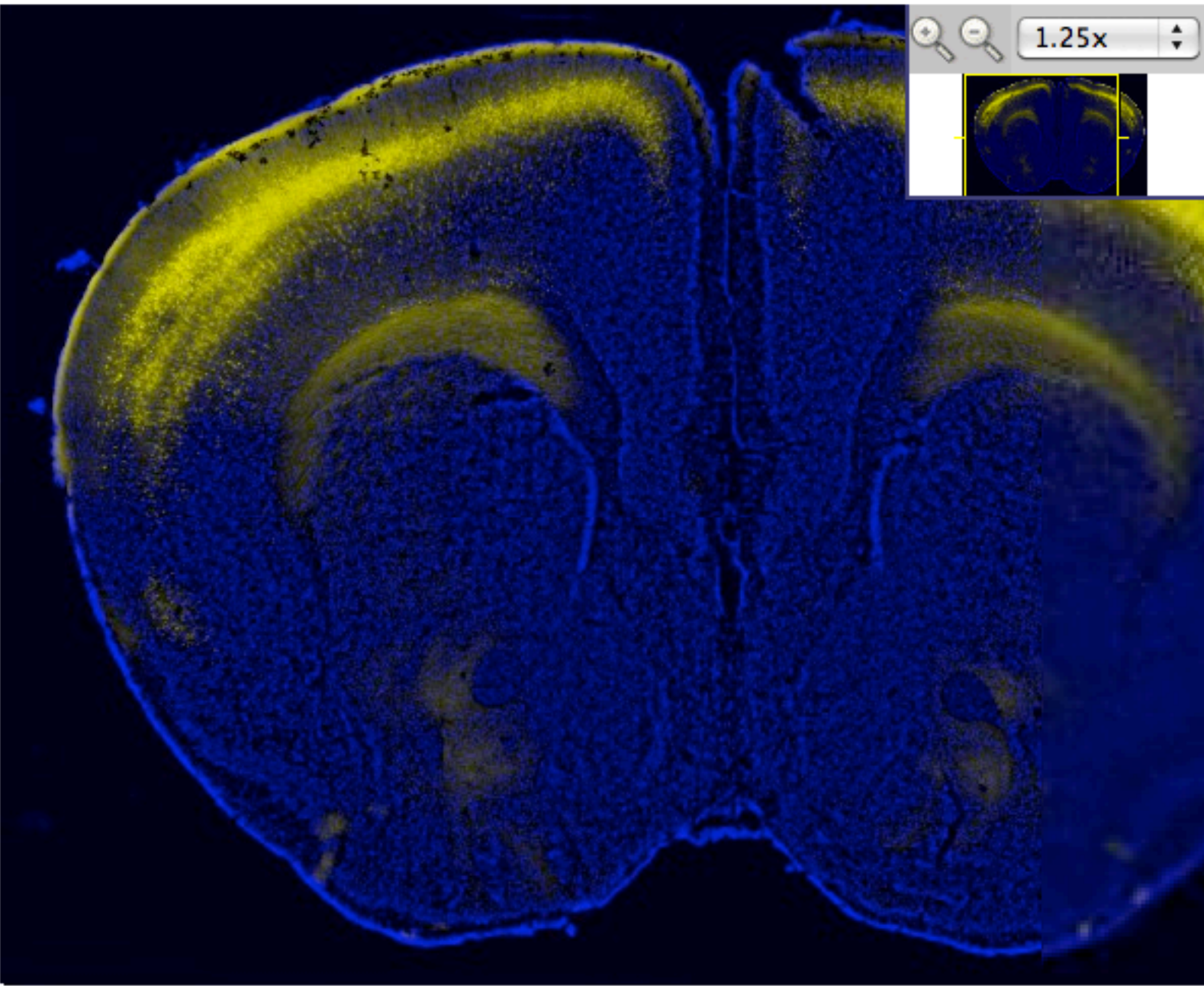
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1.25x

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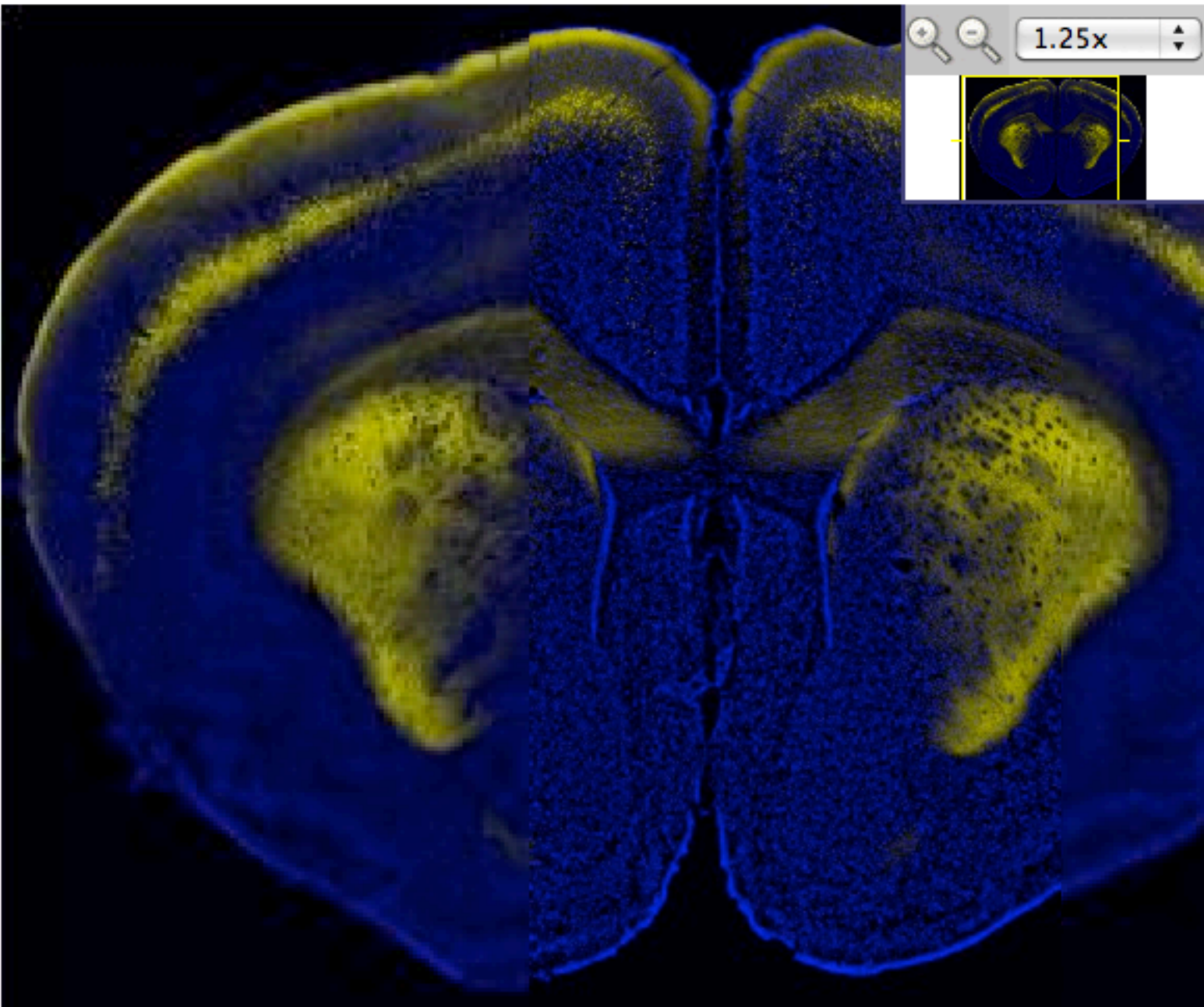
Take a snapshot



1.25x

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Take a snapshot




1.25x

mc\_Tlx3\_PL56\_2010\_c20a\_3c\_01by.pff

Take a snapshot

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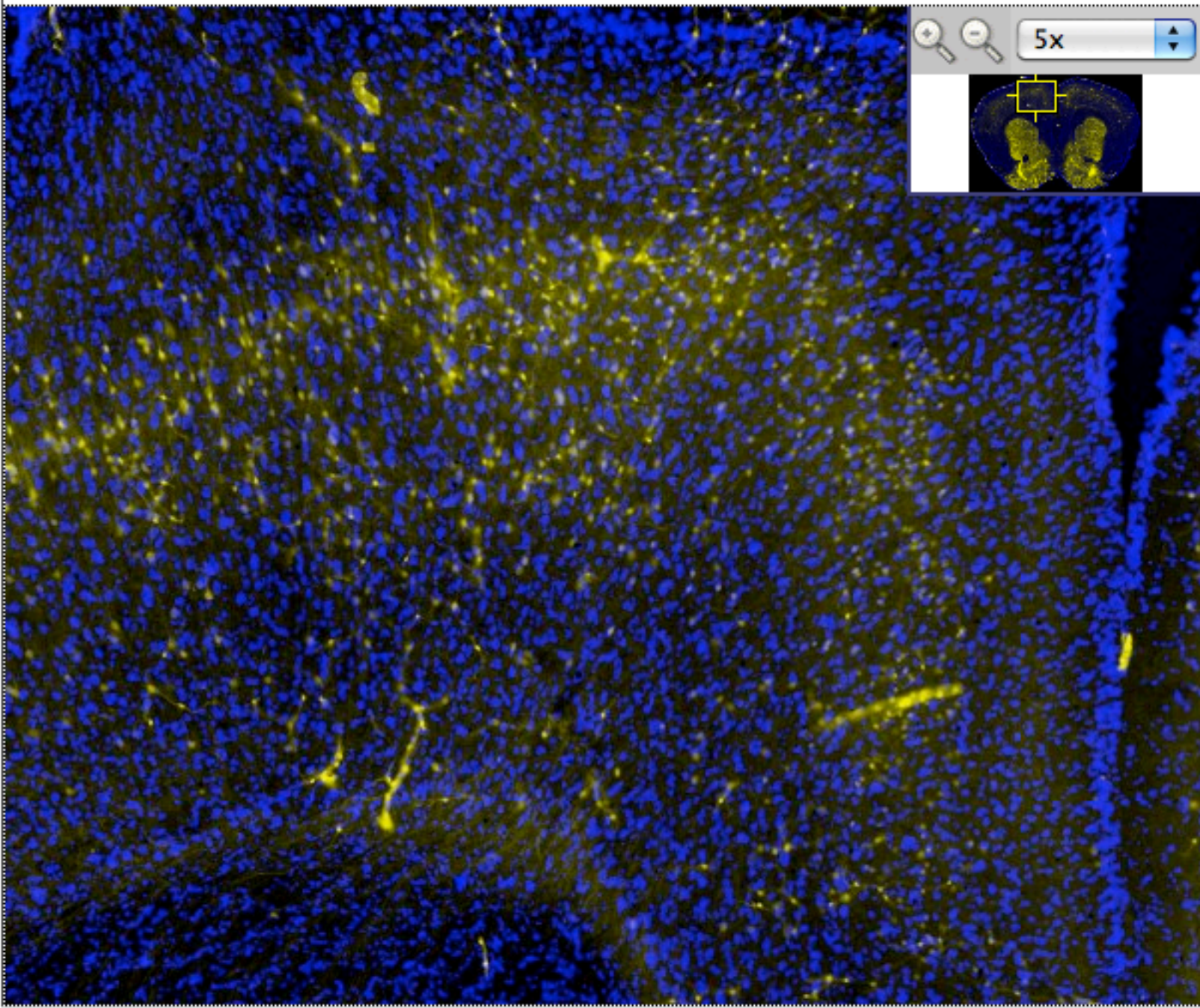
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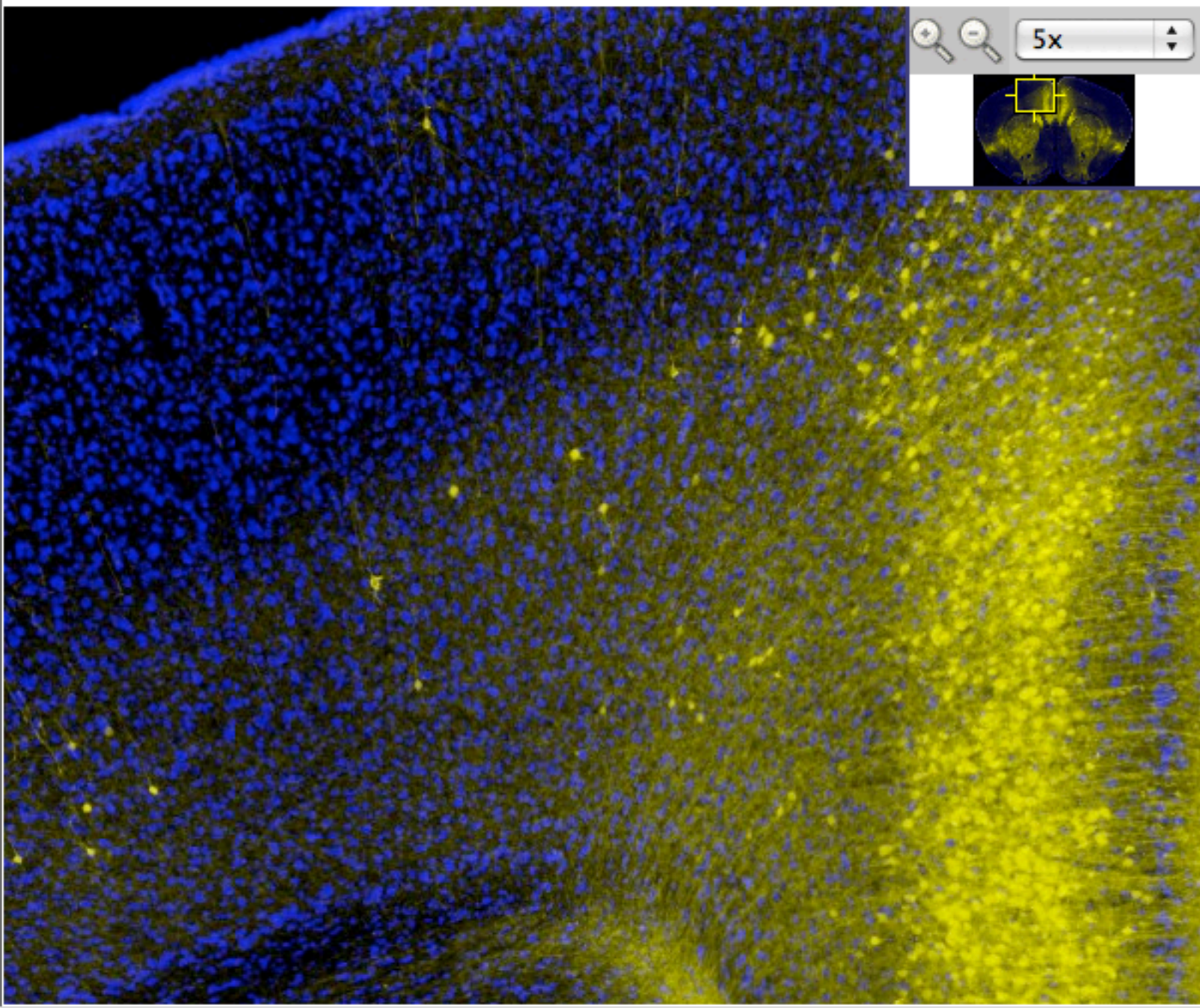
Make sure that all linked slides have the same magnification.

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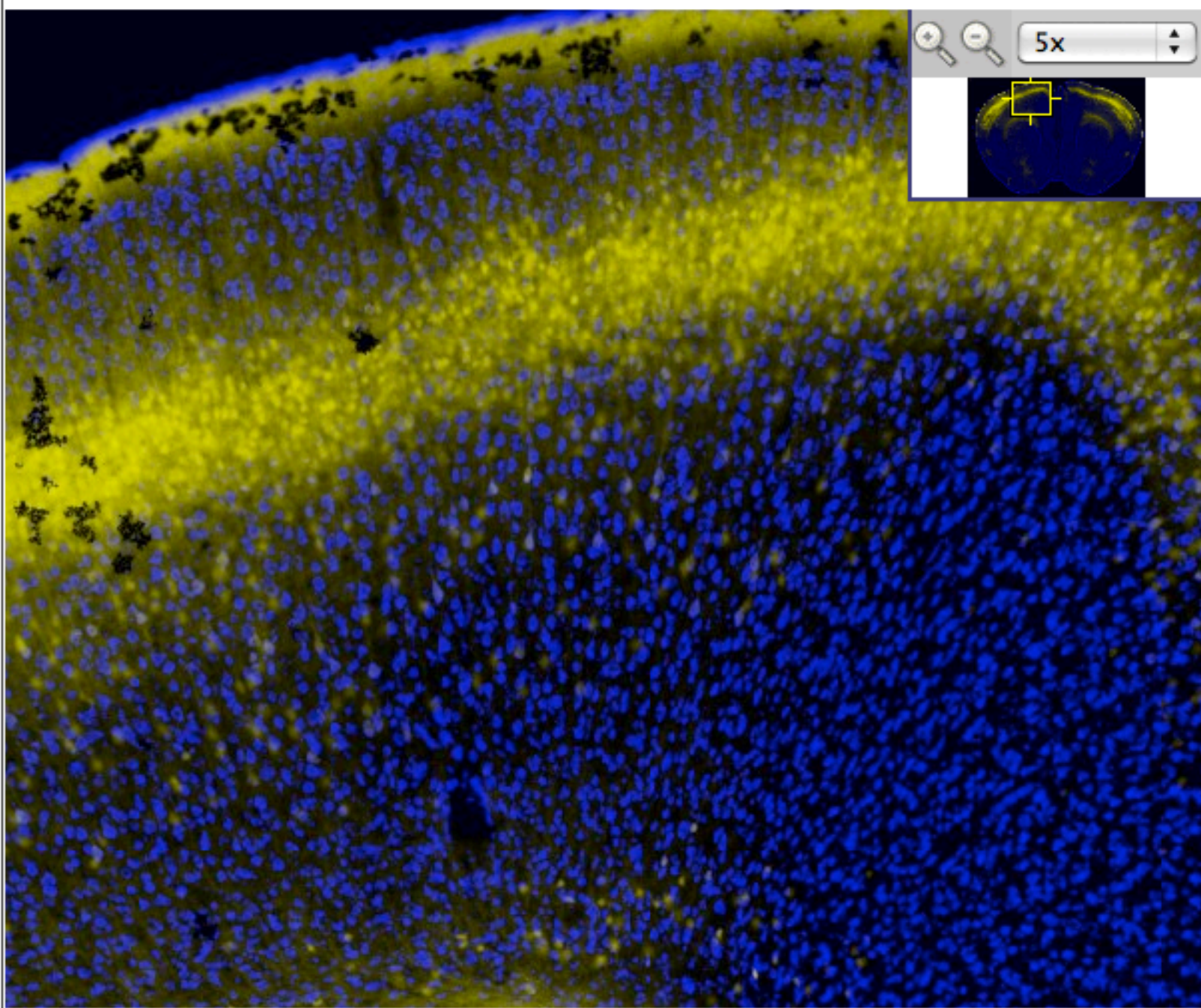
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Take a snapshot



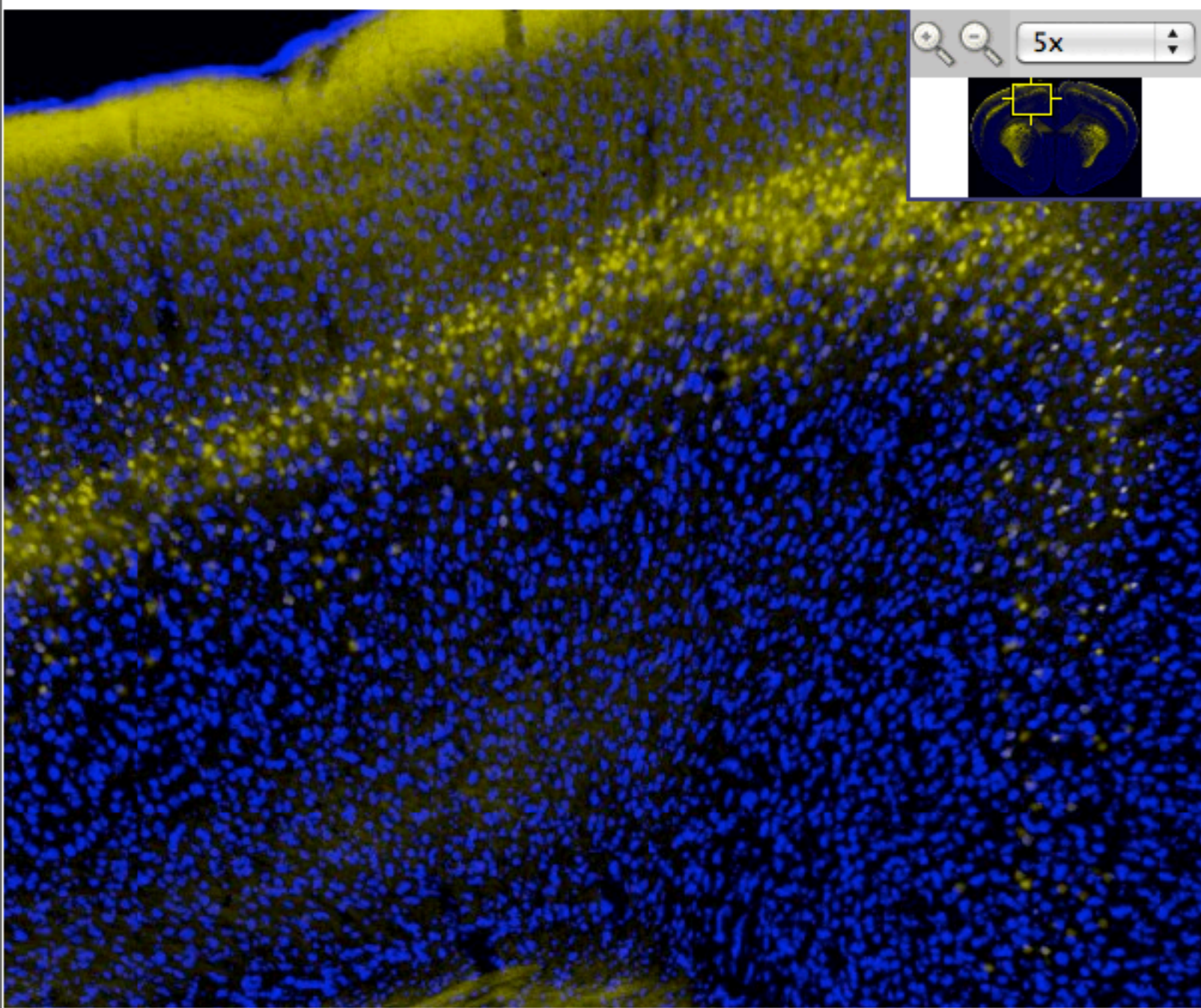
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Take a snapshot



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Take a snapshot



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**Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system**  
 Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

Keyword: 00b cortical tracing

Keyword:

Keyword:

**LINES** [Select All](#) [Unselect All](#)

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<input checked="" type="checkbox"/>	<a href="#">31T_NP39_818_01</a>	layer 2/3 sensorimotor cortex
<input checked="" type="checkbox"/>	<a href="#">31T_PL56_258_01</a>	IT corticostriatal
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<input checked="" type="checkbox"/>	<a href="#">41T_OG1_336_01</a>	matrix corticostriatal

[Select All](#) [Unselect All](#)

**LEVELS** [All Levels](#)

<input checked="" type="checkbox"/>	c5	c05 olfactory bulb
<input checked="" type="checkbox"/>	c10	c10 frontal cortex
<input checked="" type="checkbox"/>	c15	c15 frontal cortex
<input checked="" type="checkbox"/>	c20	c20 accumbens
<input checked="" type="checkbox"/>	c25	c25 striatum
<input checked="" type="checkbox"/>	c30	c30 septal area
<input checked="" type="checkbox"/>	c35	c35 globus pallidus
<input checked="" type="checkbox"/>	c40	c40 hypothalamus
<input checked="" type="checkbox"/>	c45	c45 thalamus
<input checked="" type="checkbox"/>	c50	c50 hippocampus
<input checked="" type="checkbox"/>	c55	c55 midbrain
<input checked="" type="checkbox"/>	c60	c60 substantia nigra
<input checked="" type="checkbox"/>	c65	c65 colliculus
<input checked="" type="checkbox"/>	c70	c70 dorsal raphe
<input checked="" type="checkbox"/>	c75	c75 PPN
<input checked="" type="checkbox"/>	c80	c80 brainstem
<input checked="" type="checkbox"/>	c85	locus coeruleus
<input checked="" type="checkbox"/>	c90	c90 cerebellum
<input checked="" type="checkbox"/>	c95	c95 cerebellum
<input checked="" type="checkbox"/>	c100	

**DESCRIPTION**

Place mouse over Level description to change image.

p05

p01

p09

Display Slides

☒ Results display lines in rows

☐ Results display lines in columns

Cre dependent AAV-expression vector injections are used to analyze axonal projections for Cre lines

Keyword: 00b cortical tracing lists all tracing cases with cortical injections

Injection cases are listed by:  
 number (ie: 10T)  
 Cre line (ie: KL100)  
 case: (ie: 272)  
 00: tracer in yellow with nissl  
 01: tracer yellow  
 Cre imaged in red

describes neuron type labeled

For best results to use:  
 Results display lines in columns



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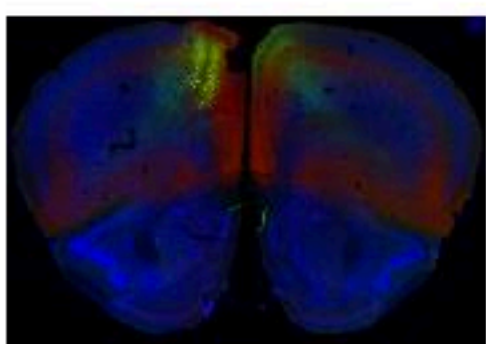
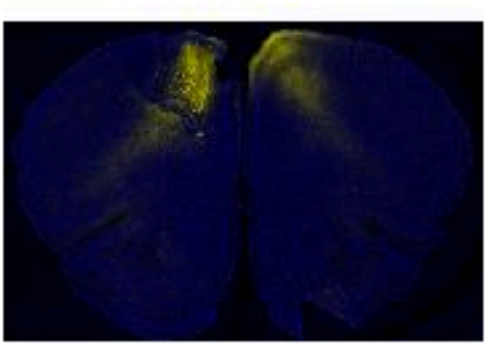
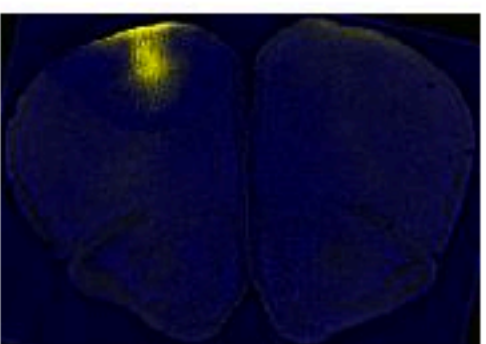
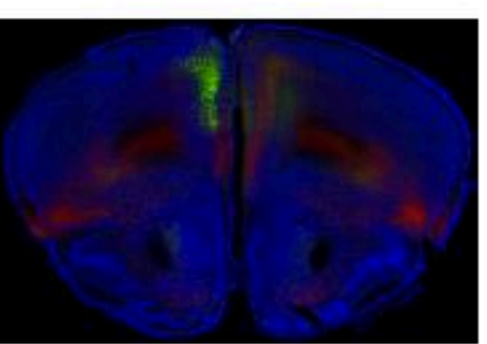
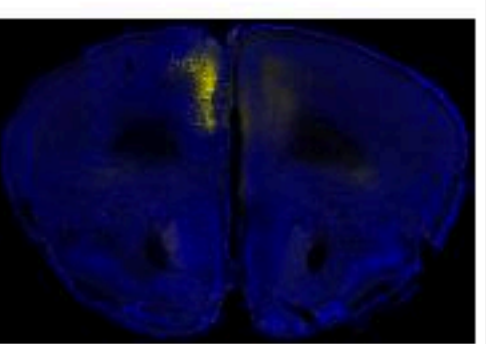
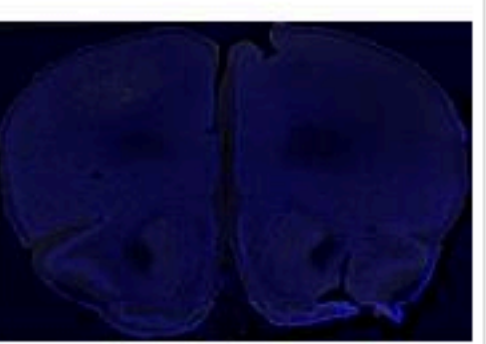
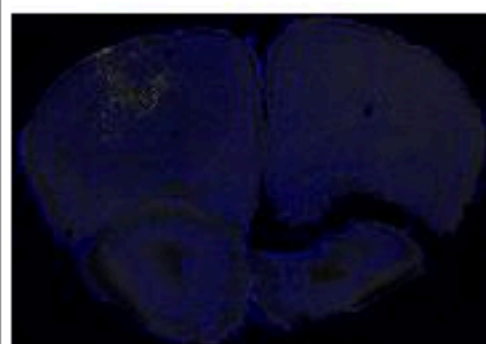
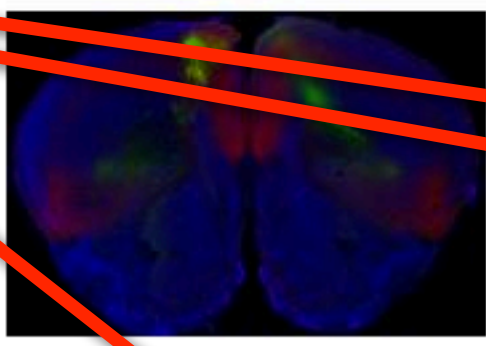
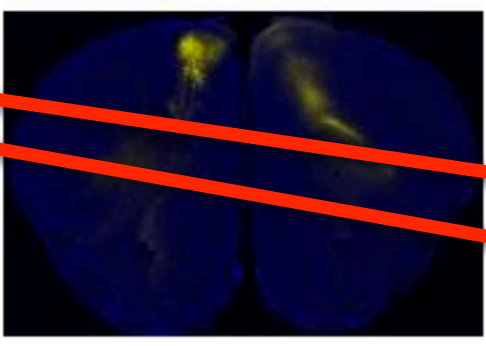
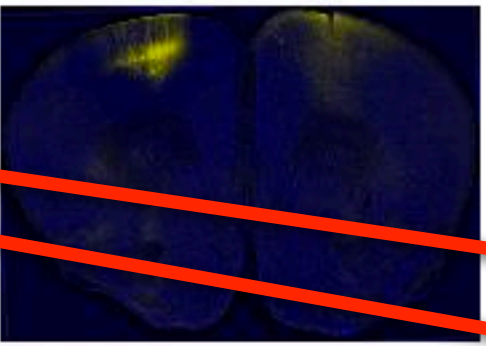
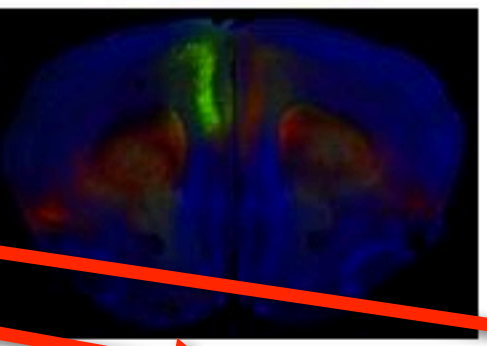
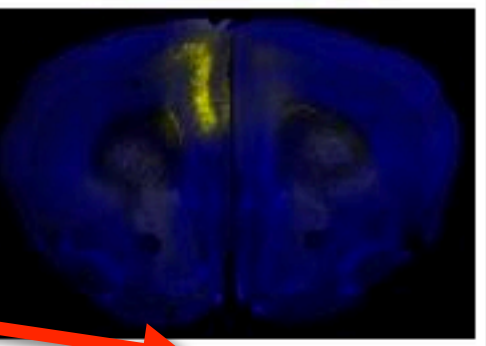
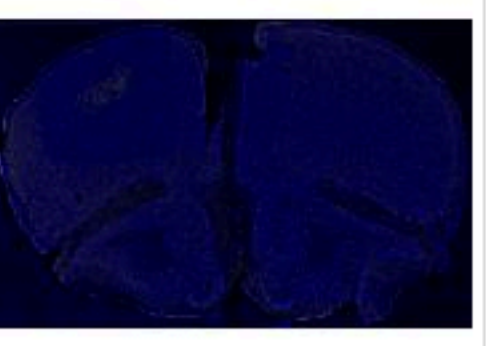
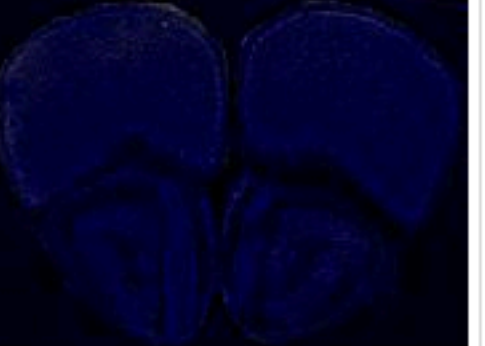
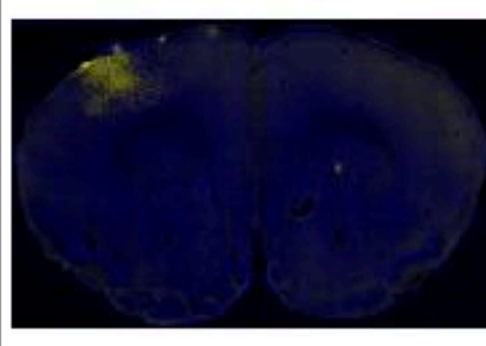
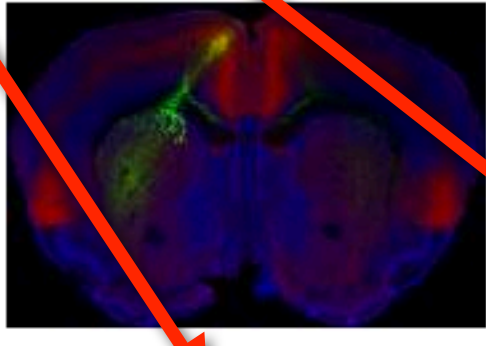
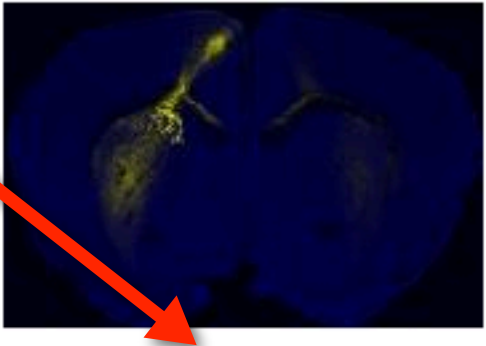
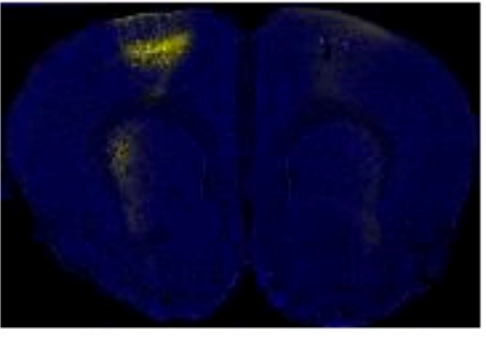
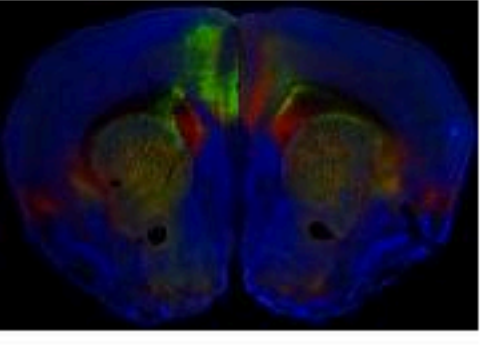
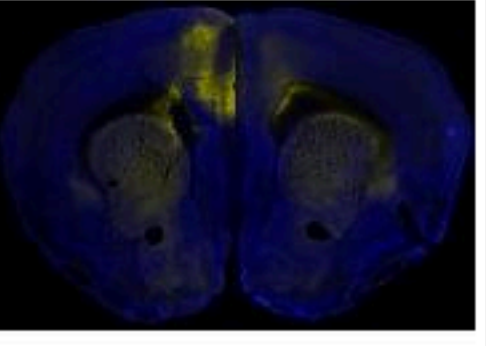
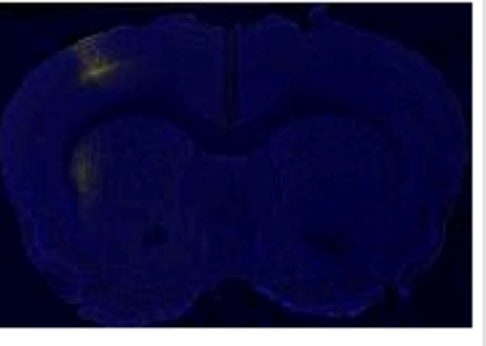
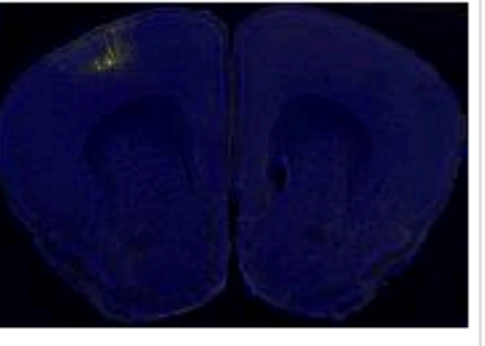
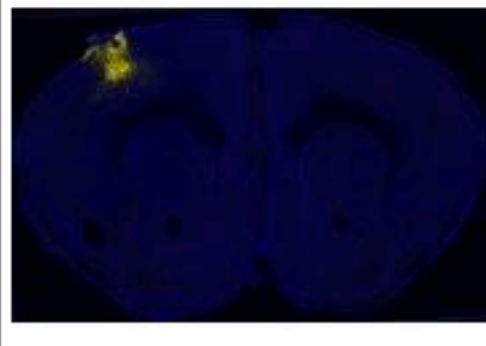
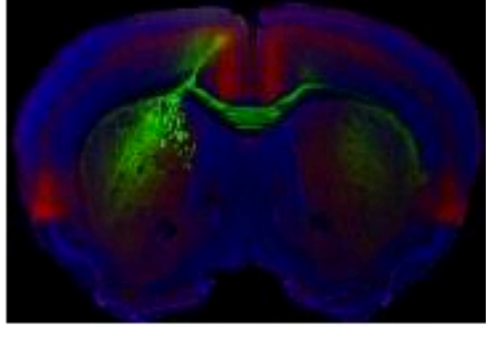
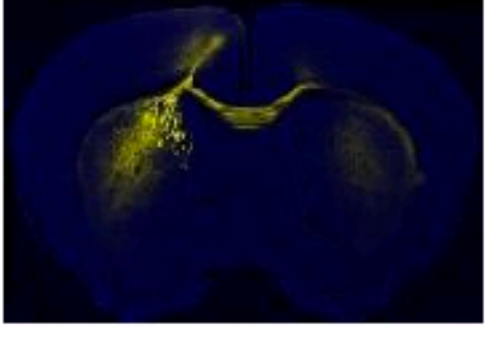
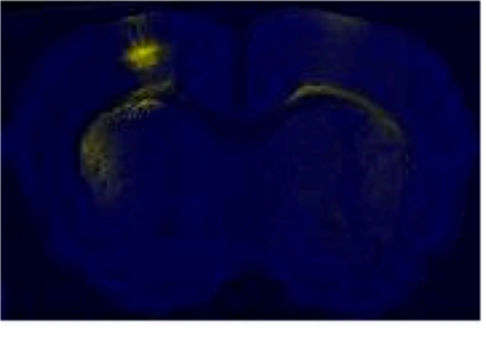
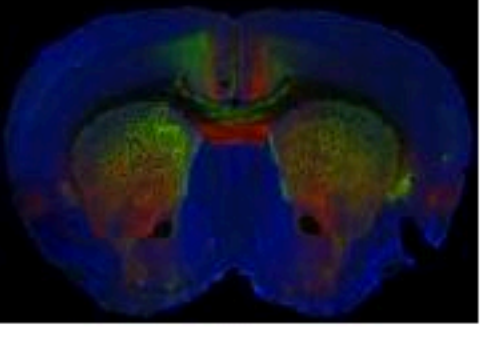
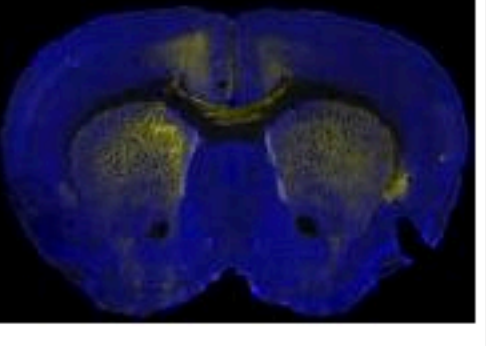
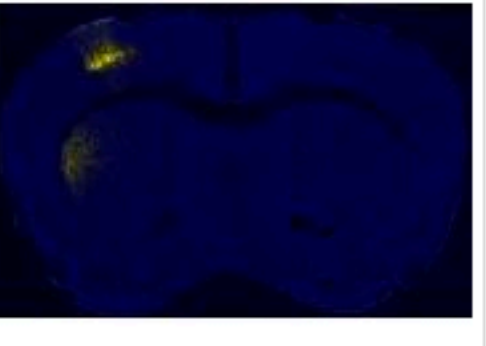
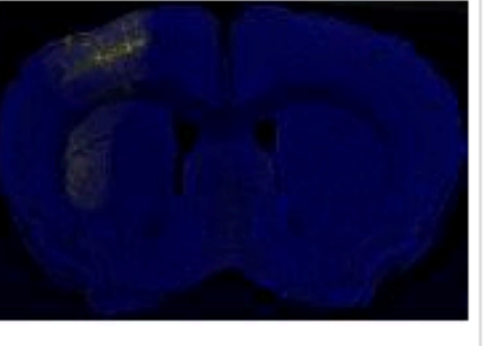
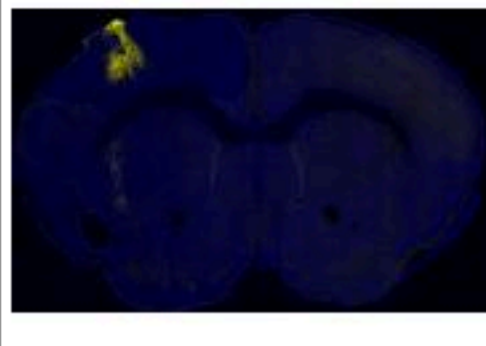
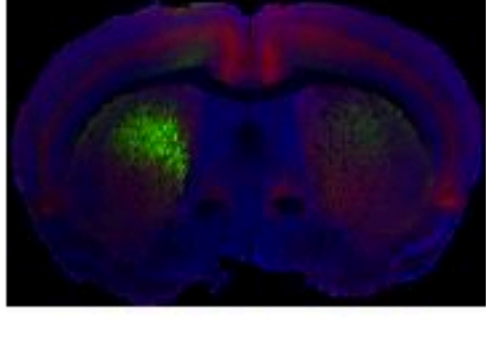
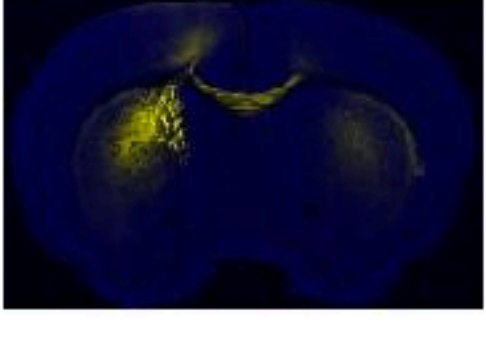
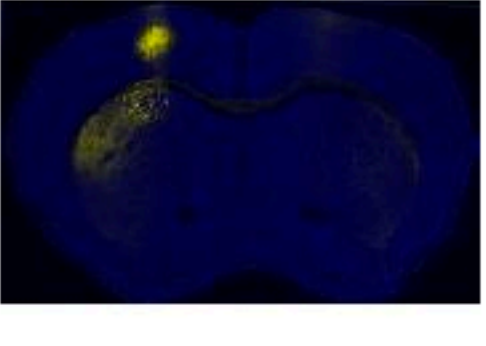
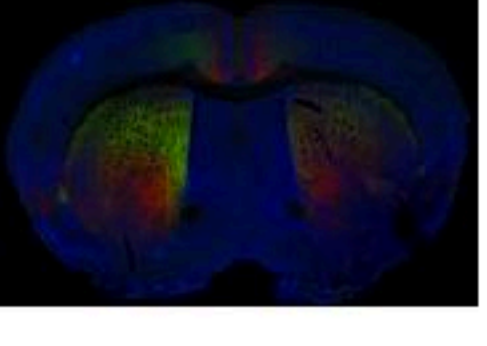
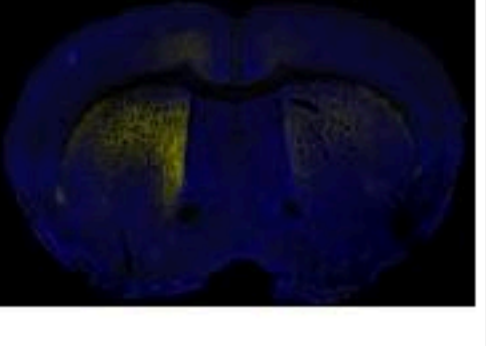
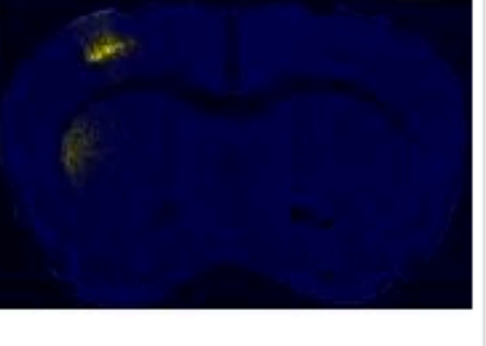
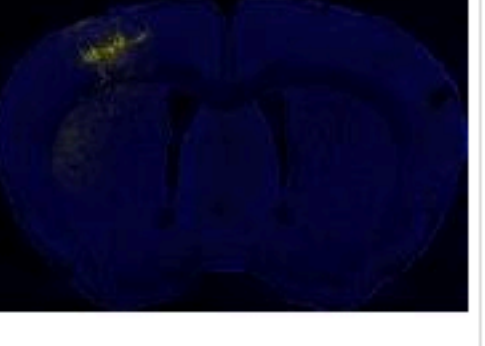
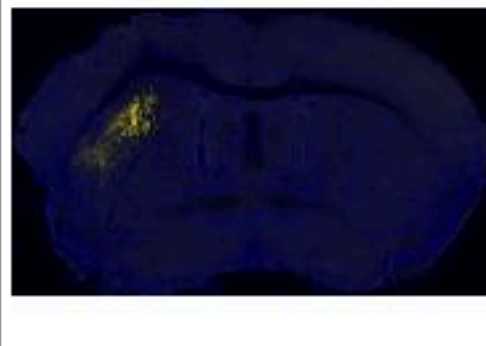
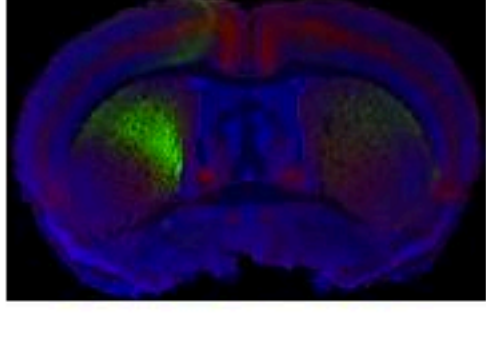
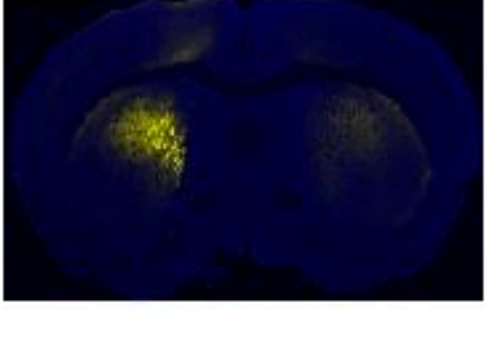
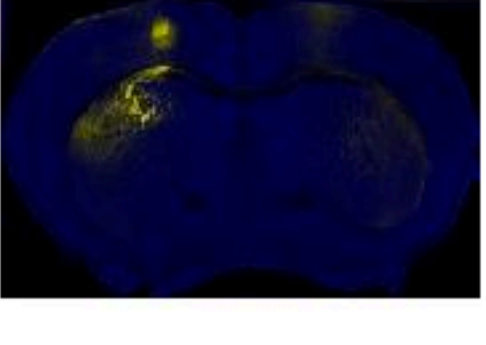
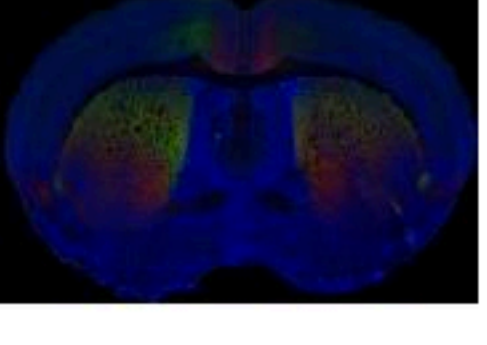
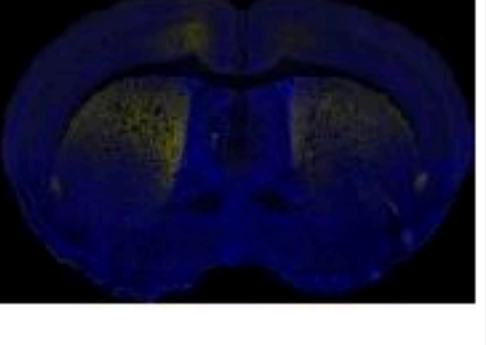
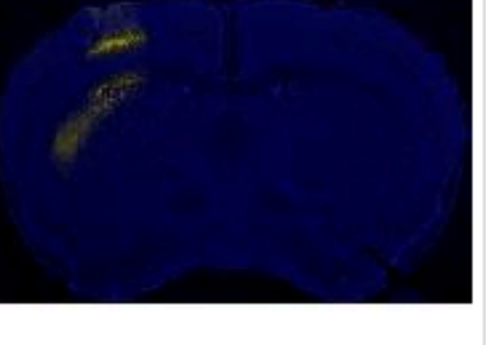
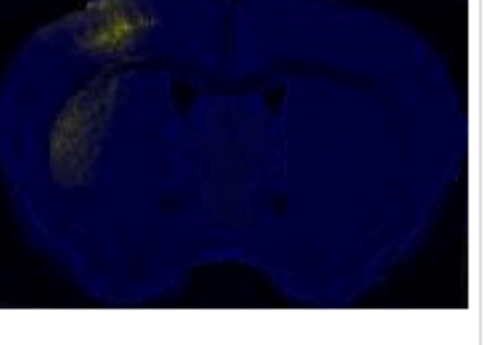
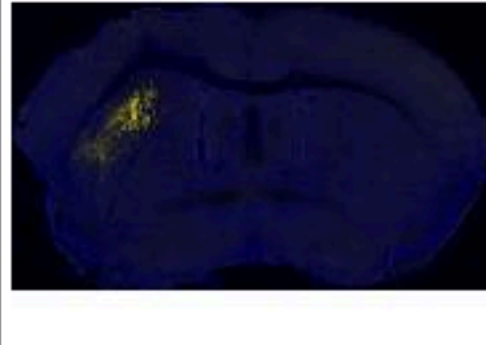
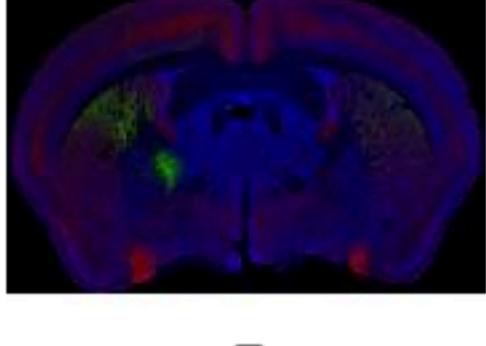
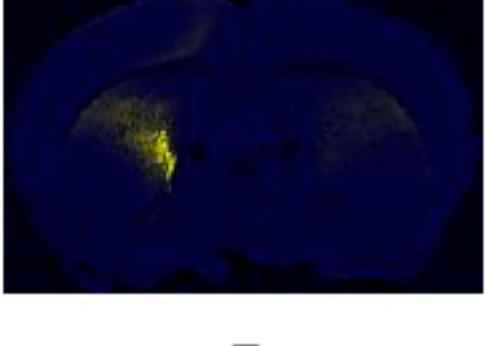
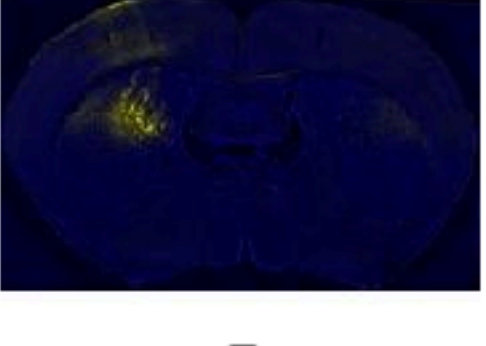
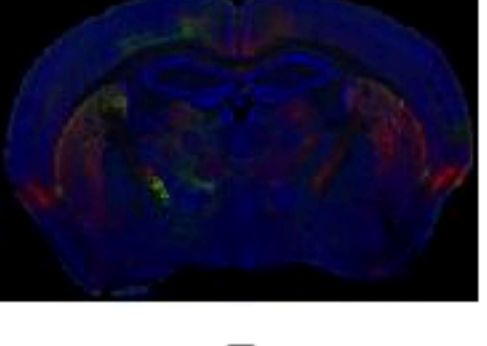
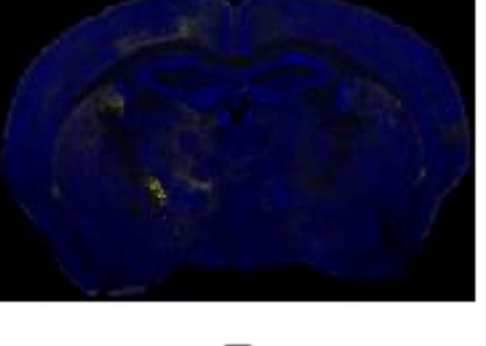
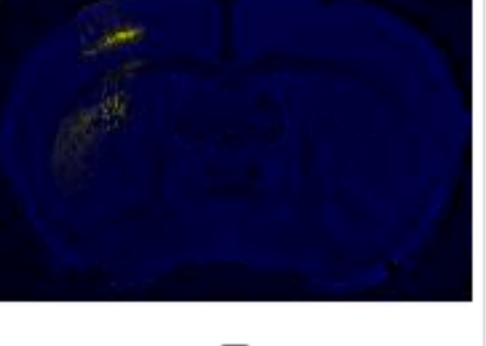
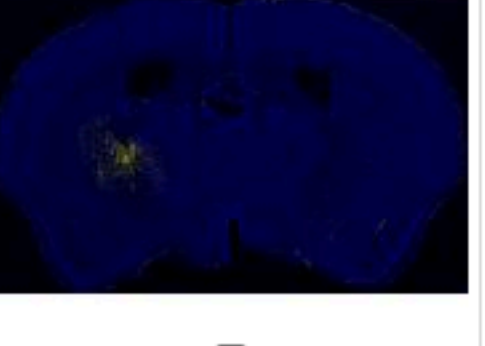
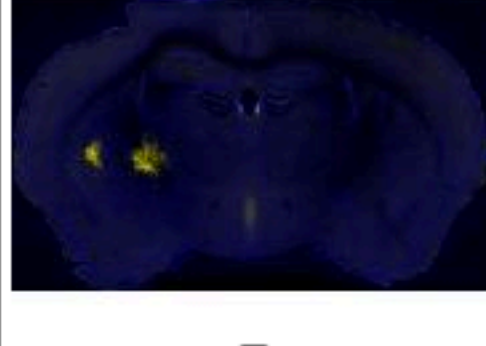
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Only two or four slides are allowed to be compared at any given time.

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Clear all selections

select images to compare injection sites viewed with and without Cre imaging

Level	10T_KL100_272_00	10T_KL100_272_01	10T_KL100_673_01	13T_NF107_576_00	13T_NF107_576_02	21_NO108_717_01	23T_OE25_454_01	24T_KJ18_542_01
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c6 - c10	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	no image available	 <input type="checkbox"/>
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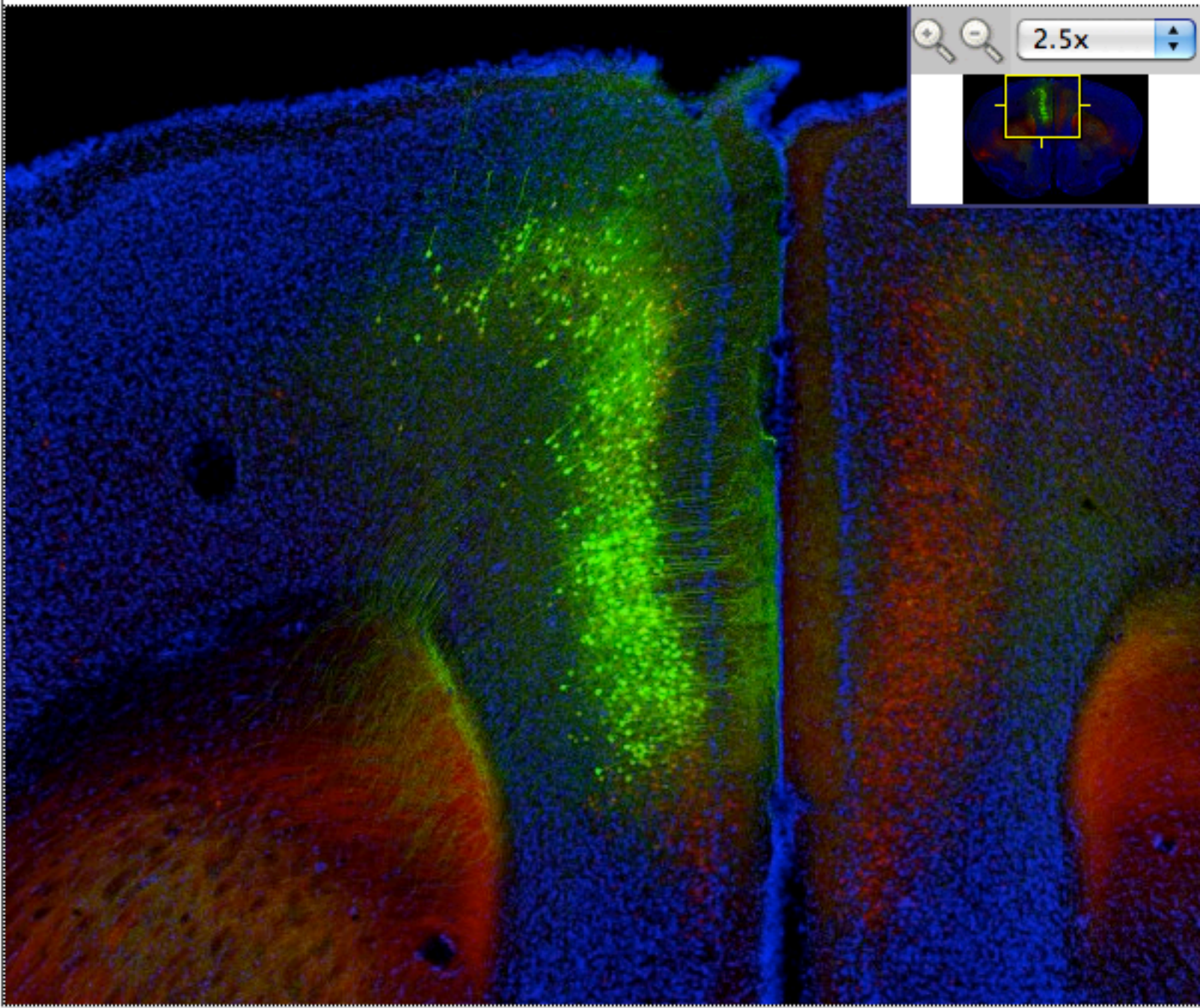
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Grouping of Slides

Use the group slide button to link the slides.

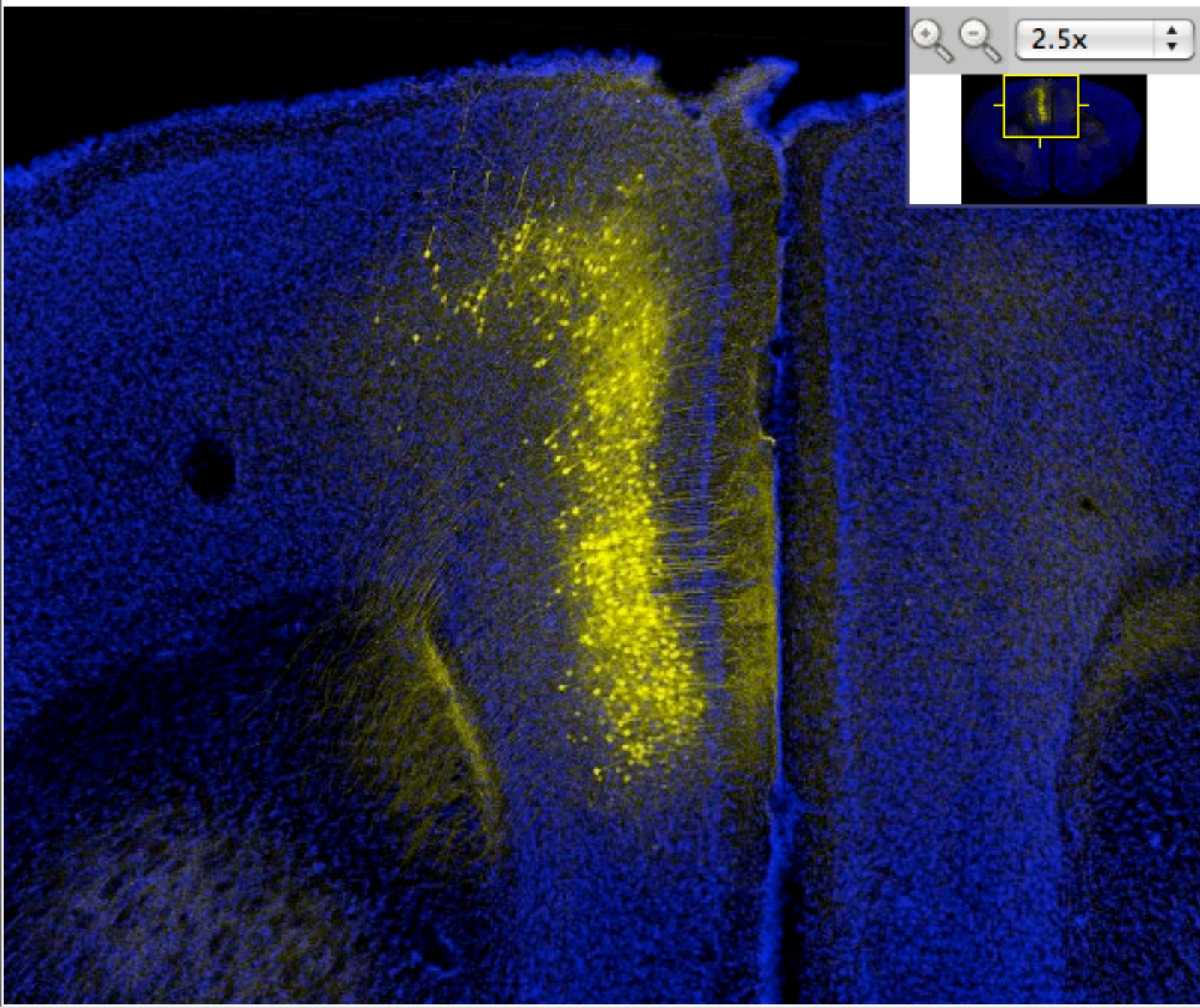
Make sure that all linked slides have the same magnification.

Ungroup Slides



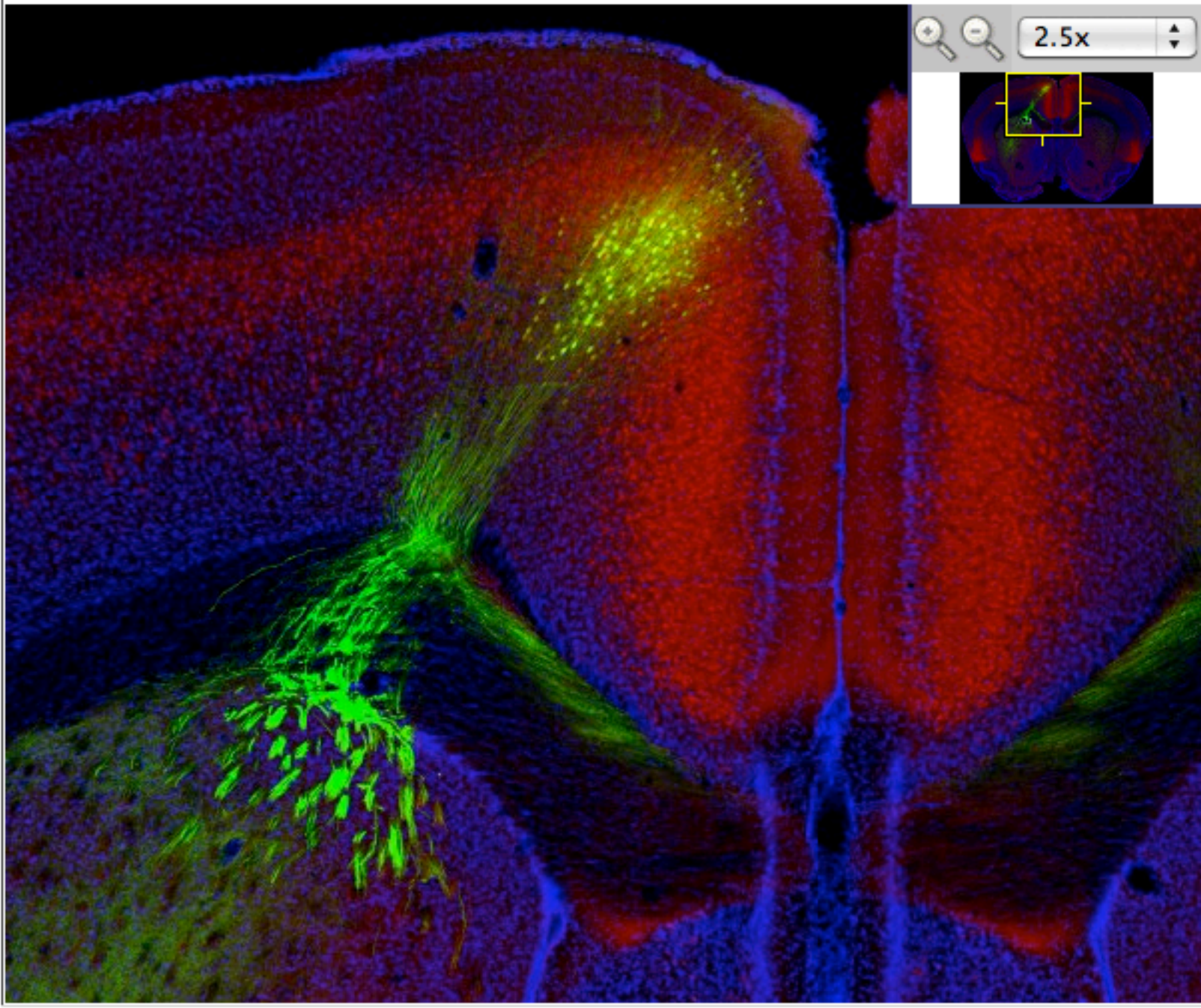
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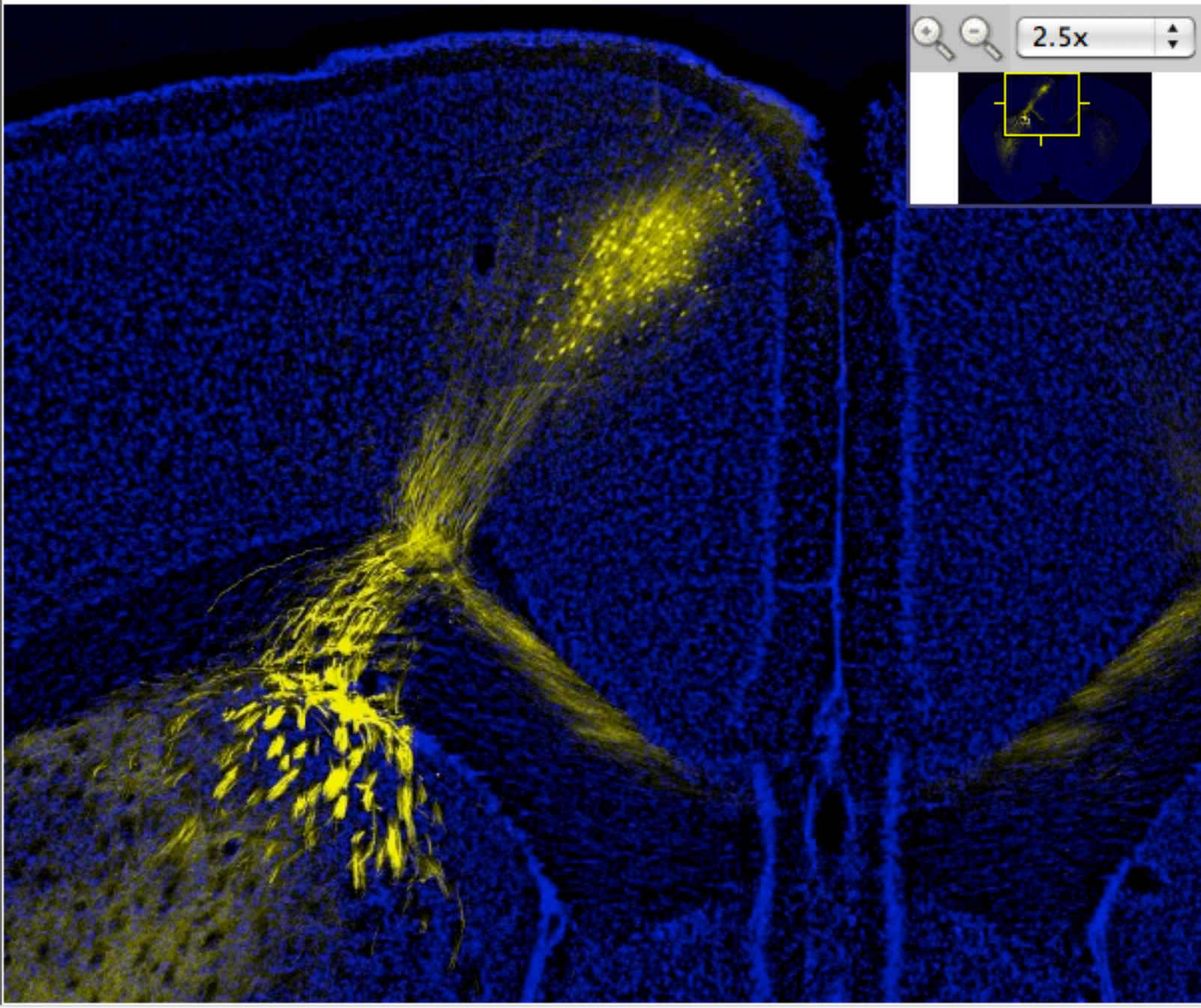
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Select Cre driver line(s): default lists all lines or select by Keyword for lines with expression in specific brain system

Select the coronal levels to display by checking box(es) : default provides 1 level in 5, All Levels option allows selection from all

Keyword: 01a cortical layer 5 PT and IT

KeyWord:

KeyWord:

LEVELS

Select All Unselect All

10T\_KL100\_272\_00 PT and IT corticostriatal

10T\_KL100\_272\_01 PT and IT corticostriatal

10T\_KL100\_673\_01 PT and IT corticostriatal

13T\_NF107\_576\_00 PT and IT prefrontal corticost...

13T\_NF107\_576\_02 PT and IT prefrontal corticost...

LEVELS

Select All Unselect All

c5 c05 olfactory bulb

c10 c10 frontal cortex

c15 c15 frontal cortex

c20 c20 accumbens

c25 c25 striatum

c30 c30 septal area

c35 c35 globus pallidus

c40 c40 hypothalamus

c45 c45 thalamus

c50 c50 hippocampus

c55 c55 midbrain

c60 c60 substantia nigra

c65 c65 colliculus

c70 c70 dorsal raphe

c75 c75 PPN

c80 c80 brainstem

c85 c85 locus coeruleus

c90 c90 cerebellum

c95 c95 cerebellum

c100

Place mouse over Level description to change image.

p05

p01

p09

Display Slides

Results display lines in rows

Results display lines in columns

Tracing cases with labeling in specific neurons are grouped with KeyWord:

01a cortical layer 5 PT and IT

Cases of Cre lines with cortical layer 5 neurons with expression in both Pyramidal Tract (PT) and callosal or intertelencephalic (IT) neurons

Other Cre lines with expression selective to either PT or IT are listed under other Keywords

Cases of injections into different cortical areas are listed by Keyword as well



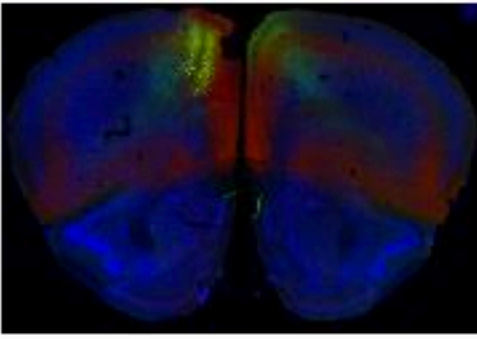
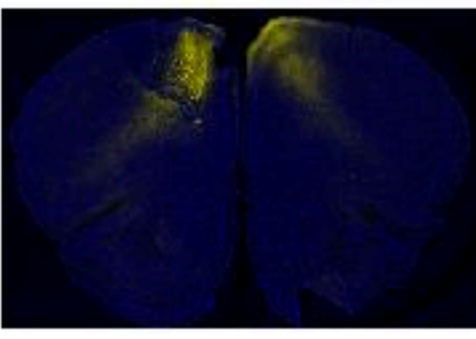
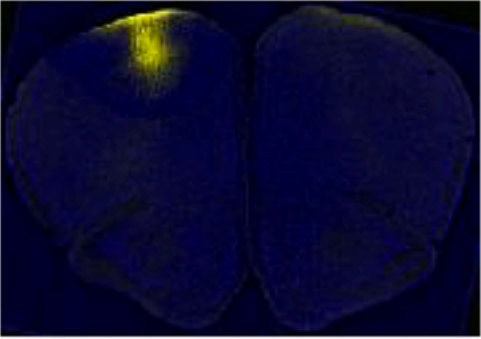
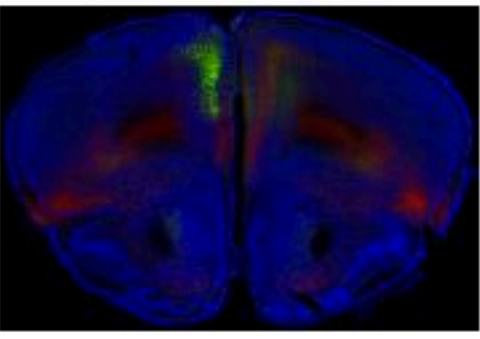
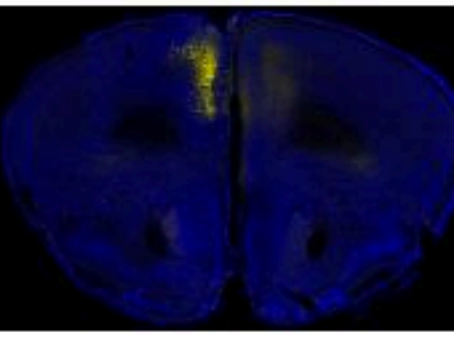
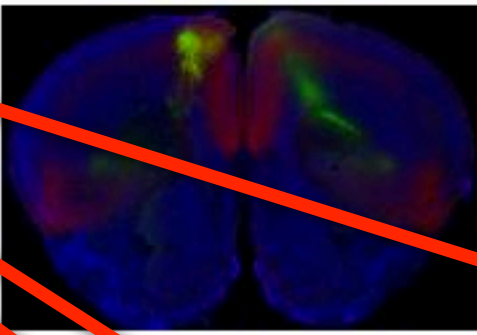
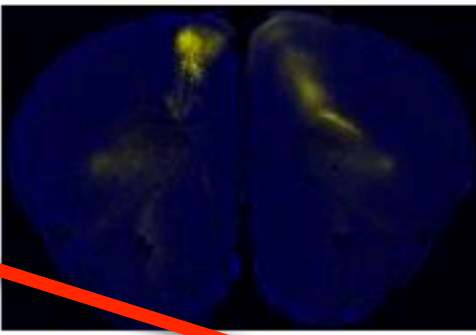
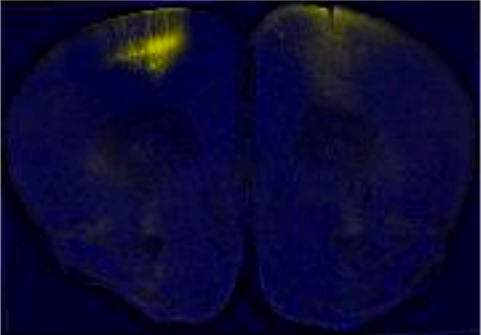
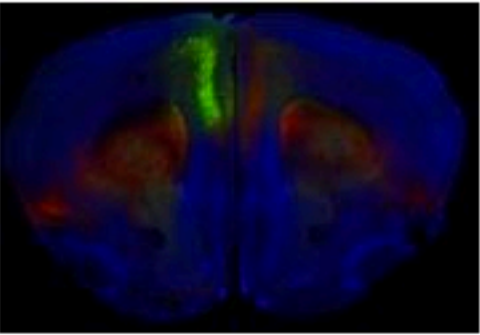
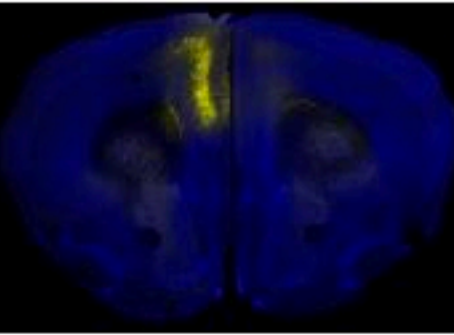
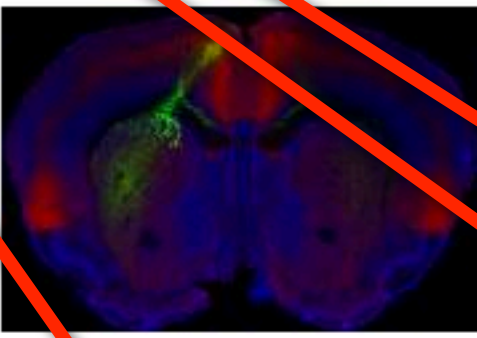
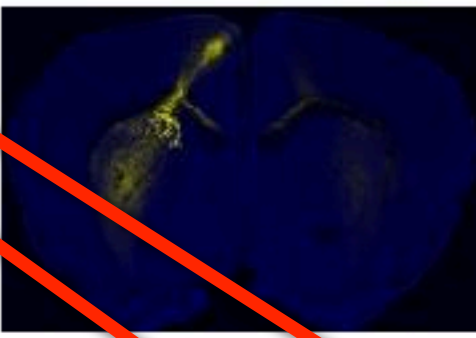
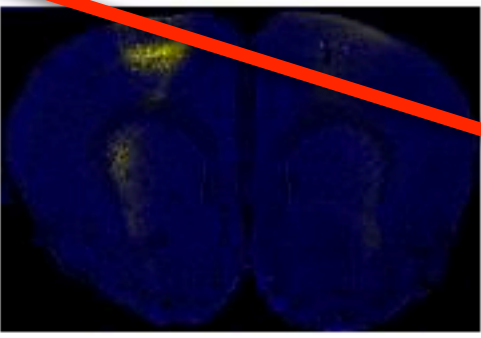
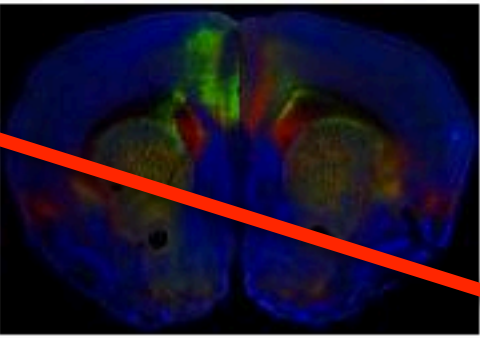
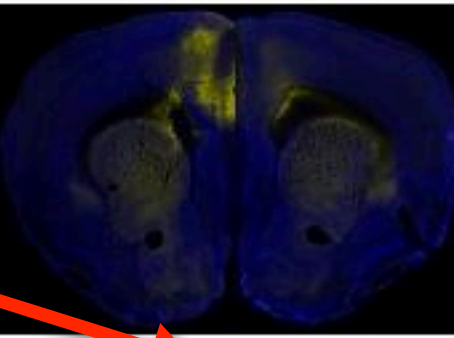
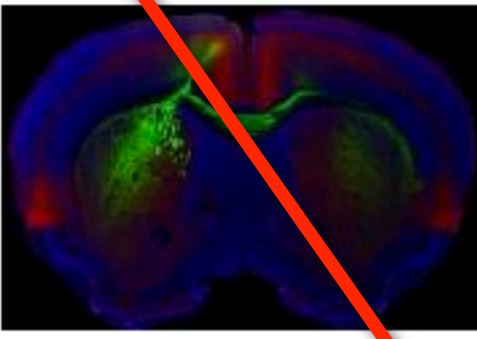
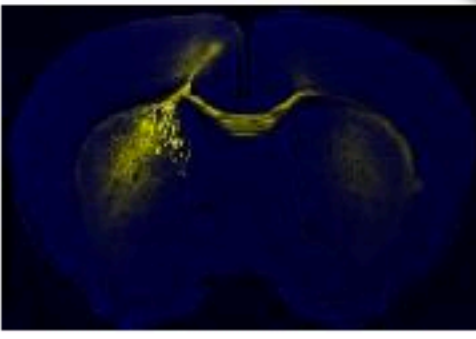
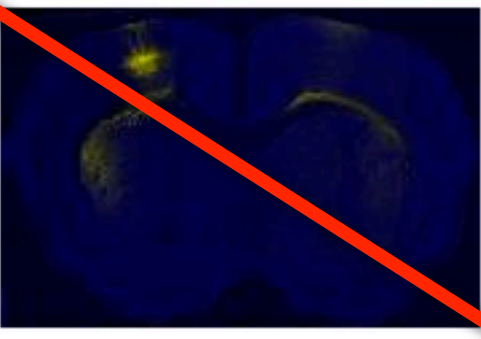
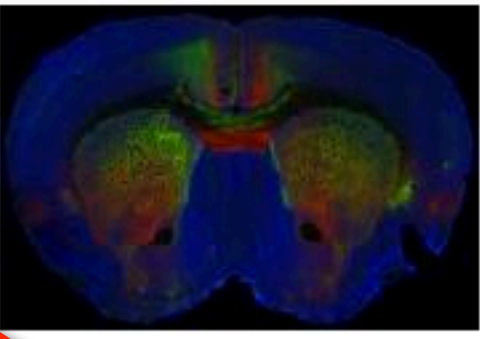
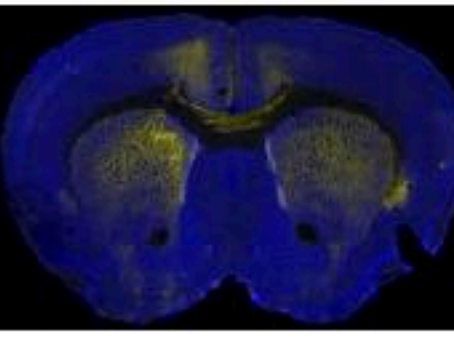
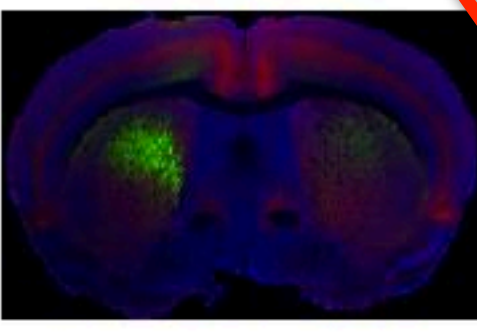
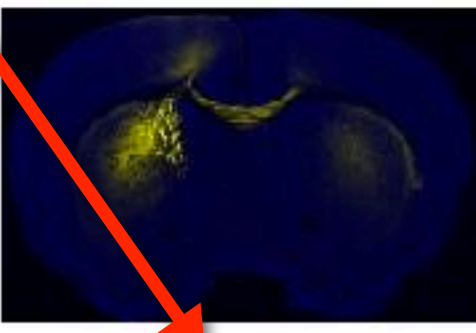
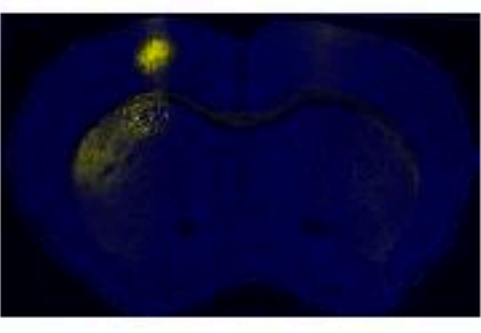
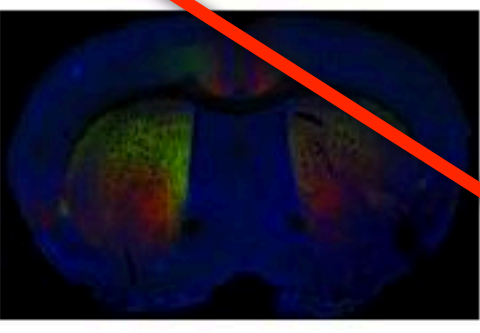
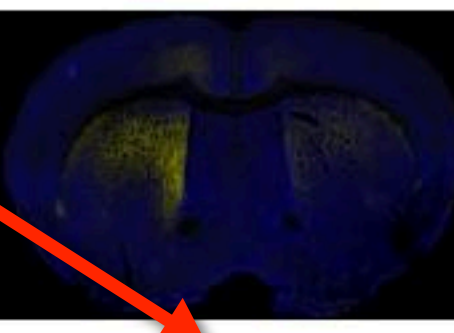
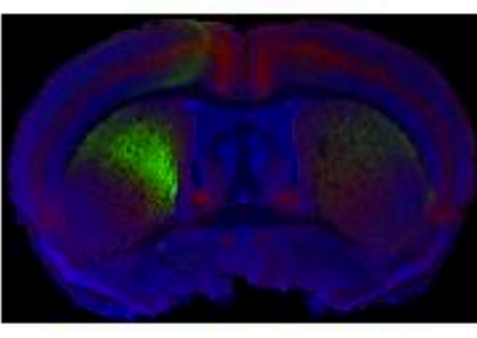
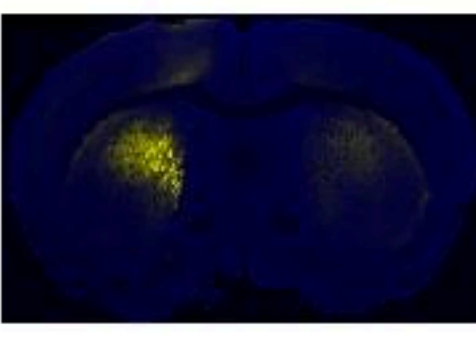
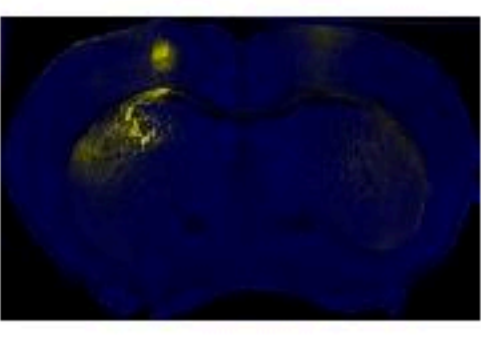
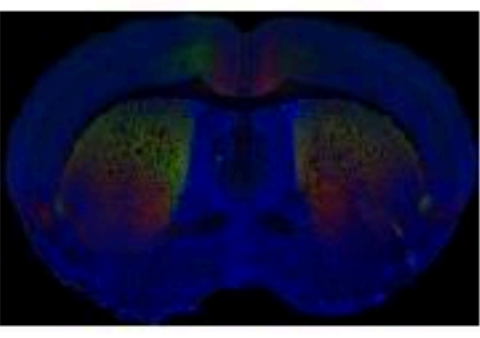
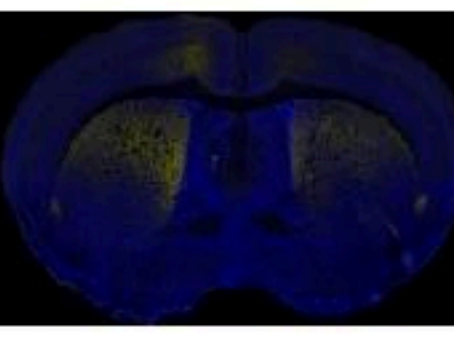
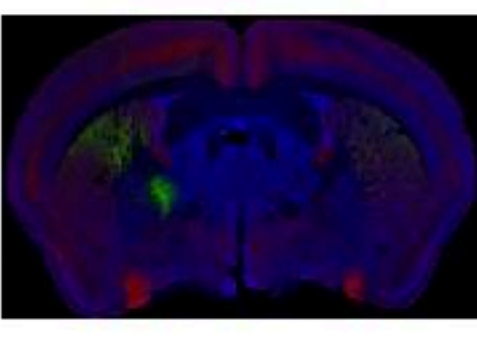
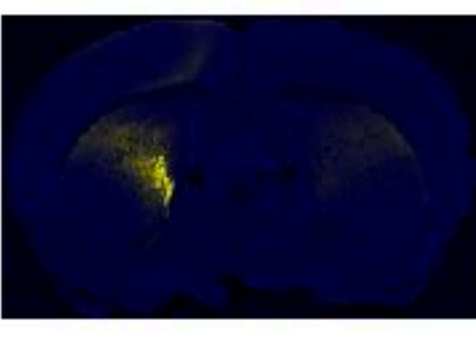
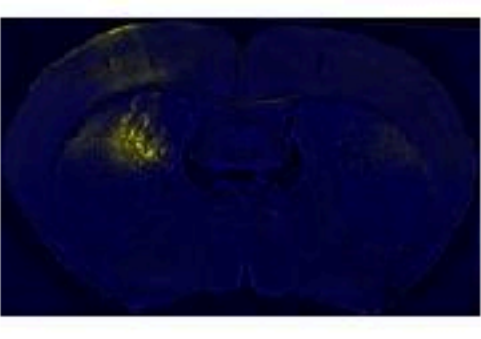
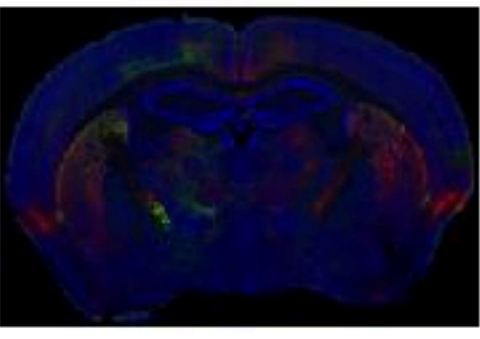
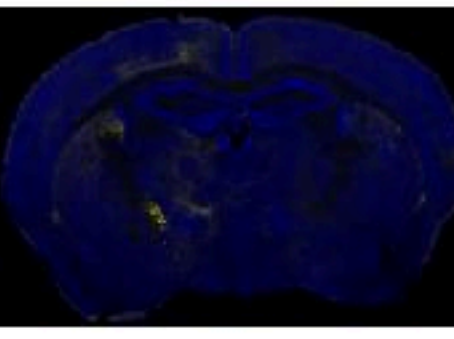
## Compare Slides

Various slides can be compared (at different magnifications, etc) by clicking in the checkbox to select the slide and pressing the "Compare Slides" button.

Only two or four slides are allowed to be compared at any given time.

Compare Selected Slides

Clear all Selections

Level	10T_KL100_272_00	10T_KL100_272_01	10T_KL100_673_01	13T_NF107_576_00	13T_NF107_576_02
c1 - c5	no image available	no image available	no image available	no image available	no image available
c6 - c10					
c11 - c15					
c16 - c20					
c21 - c25					
c26 - c30					
c31 - c35					
c36 - c40					

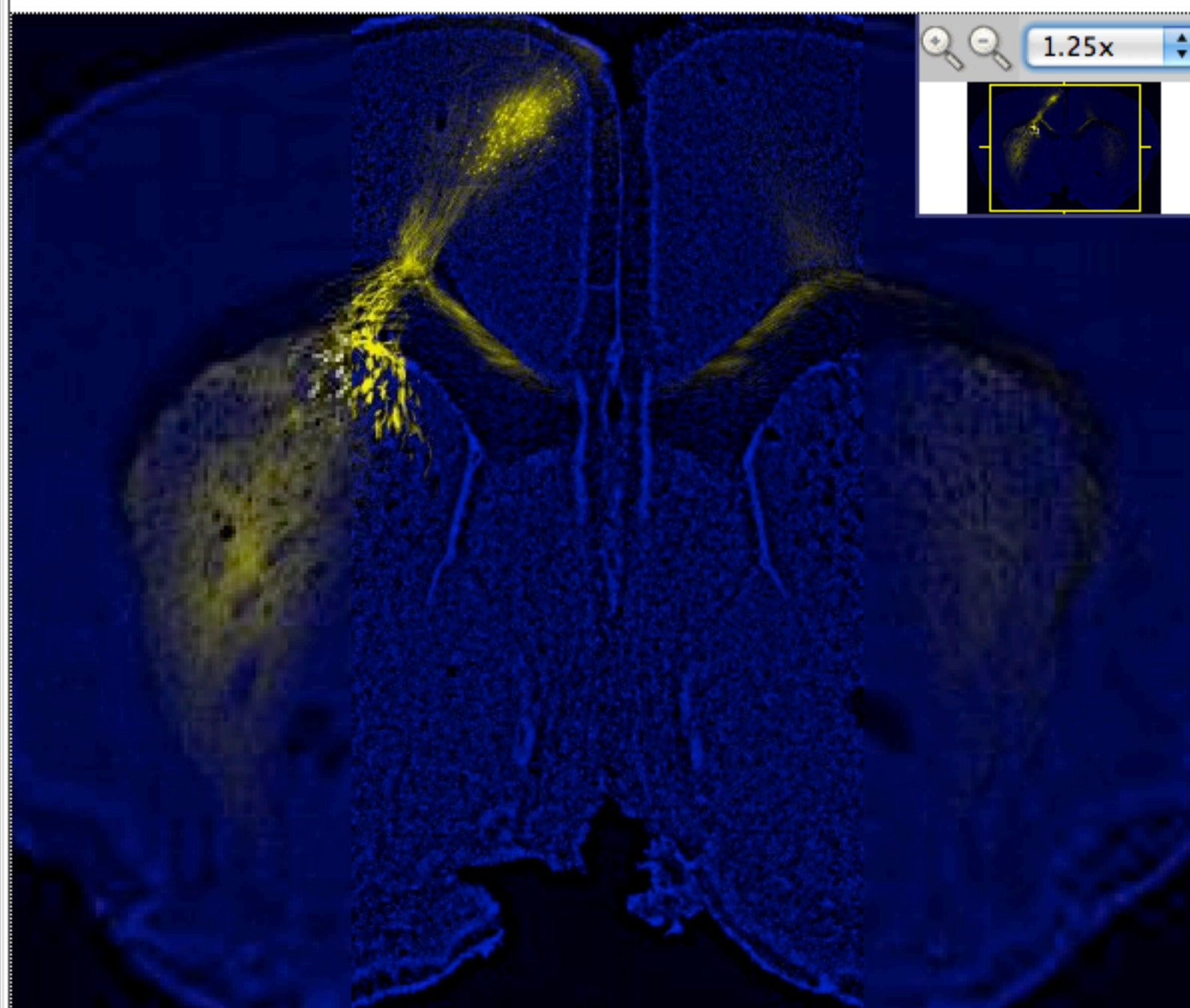


### Grouping of Slides

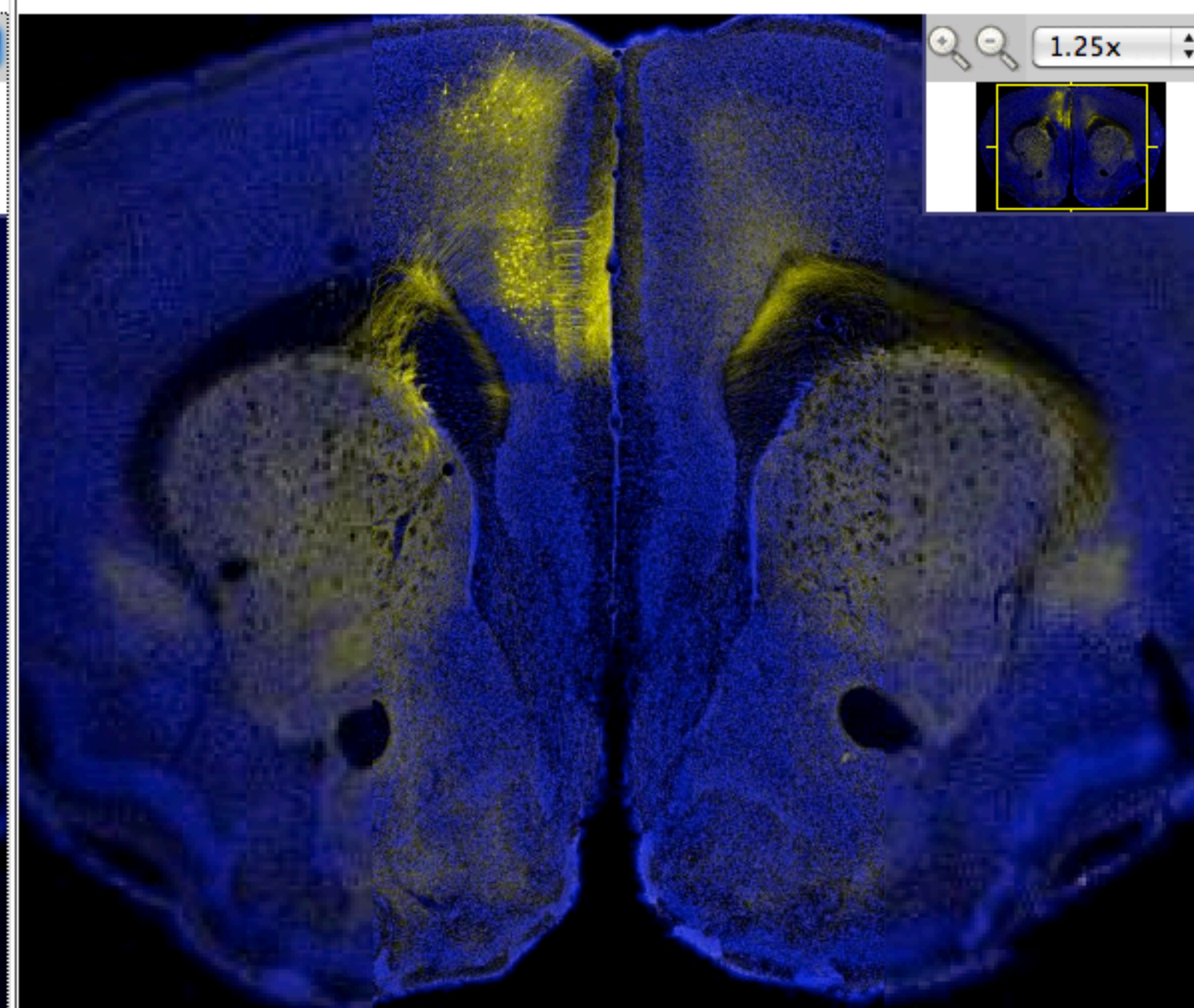
Use the group slide button to link the slides.

Make sure that all linked slides have the same magnification.

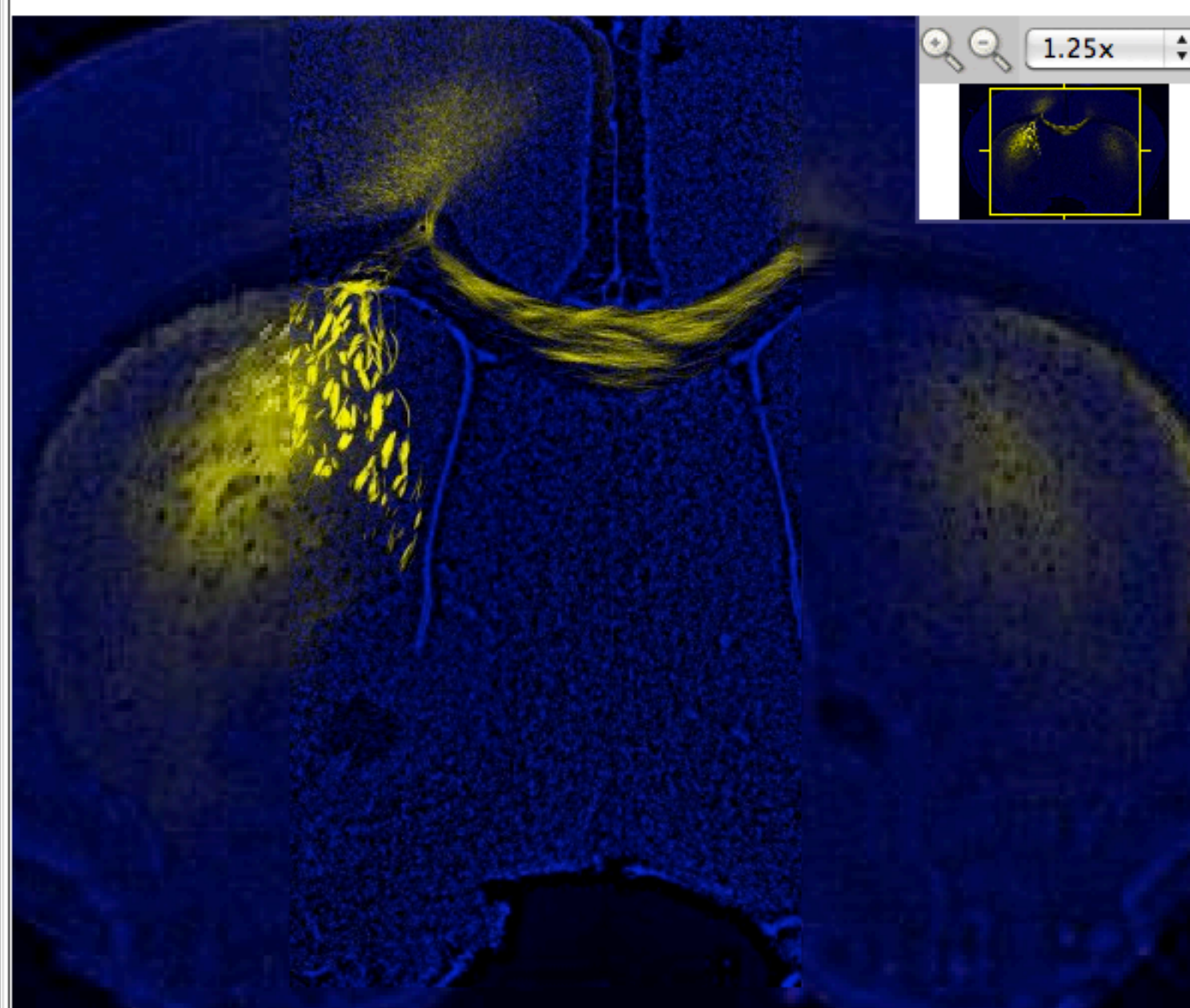
Ungroup Slides



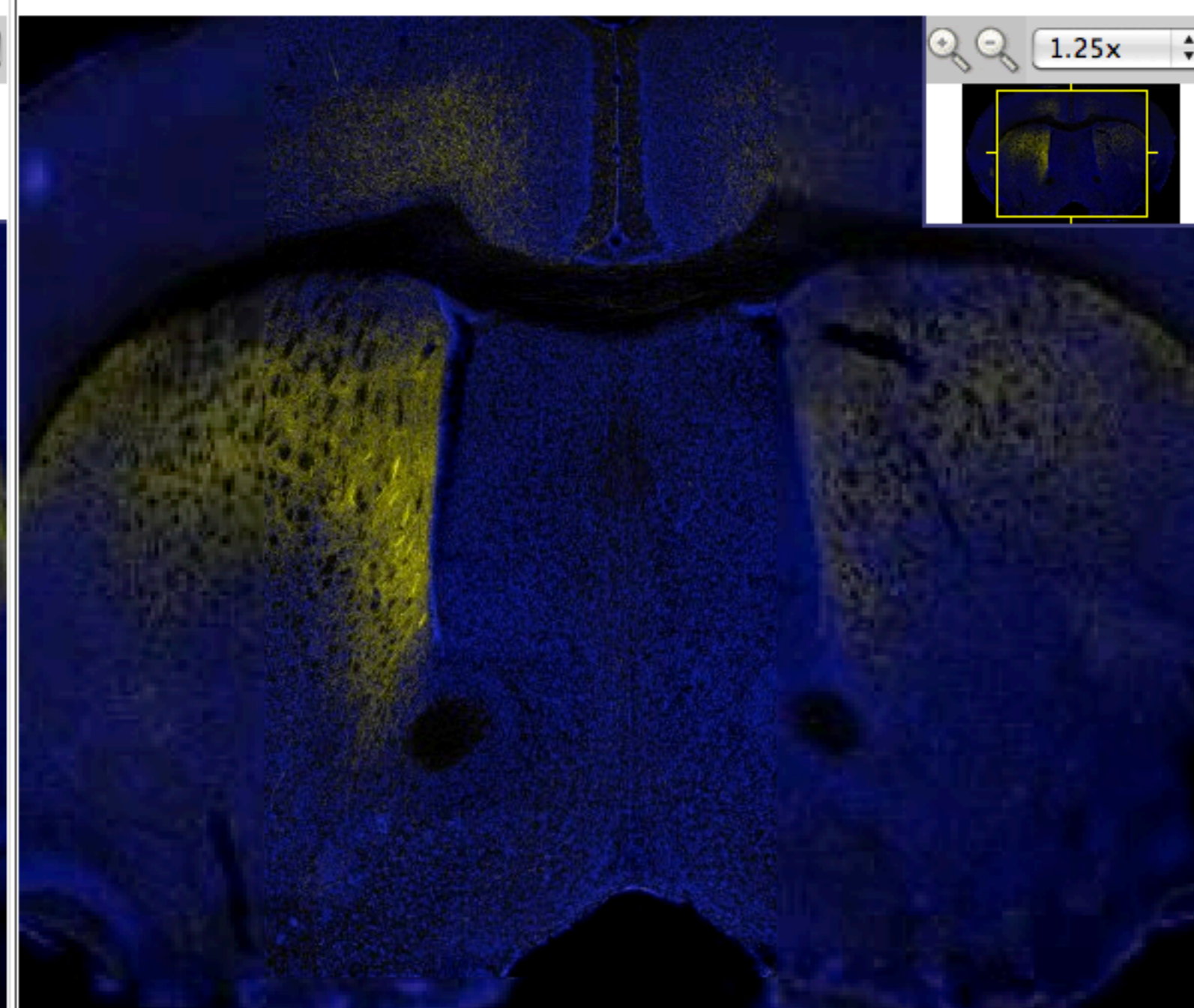
tr\_KL100\_2272\_20b\_02\_B\_accumbens\_01ba.pff [Take a snapshot](#)



tr\_NF107\_576\_20d\_03\_Bb\_accumbens\_02.pff [Take a snapshot](#)



tr\_KL100\_2272\_20e\_04\_B\_accumbens\_01ba.pff [Take a snapshot](#)



tr\_NF107\_576\_30c\_04\_B\_striatum\_02.pff [Take a snapshot](#)